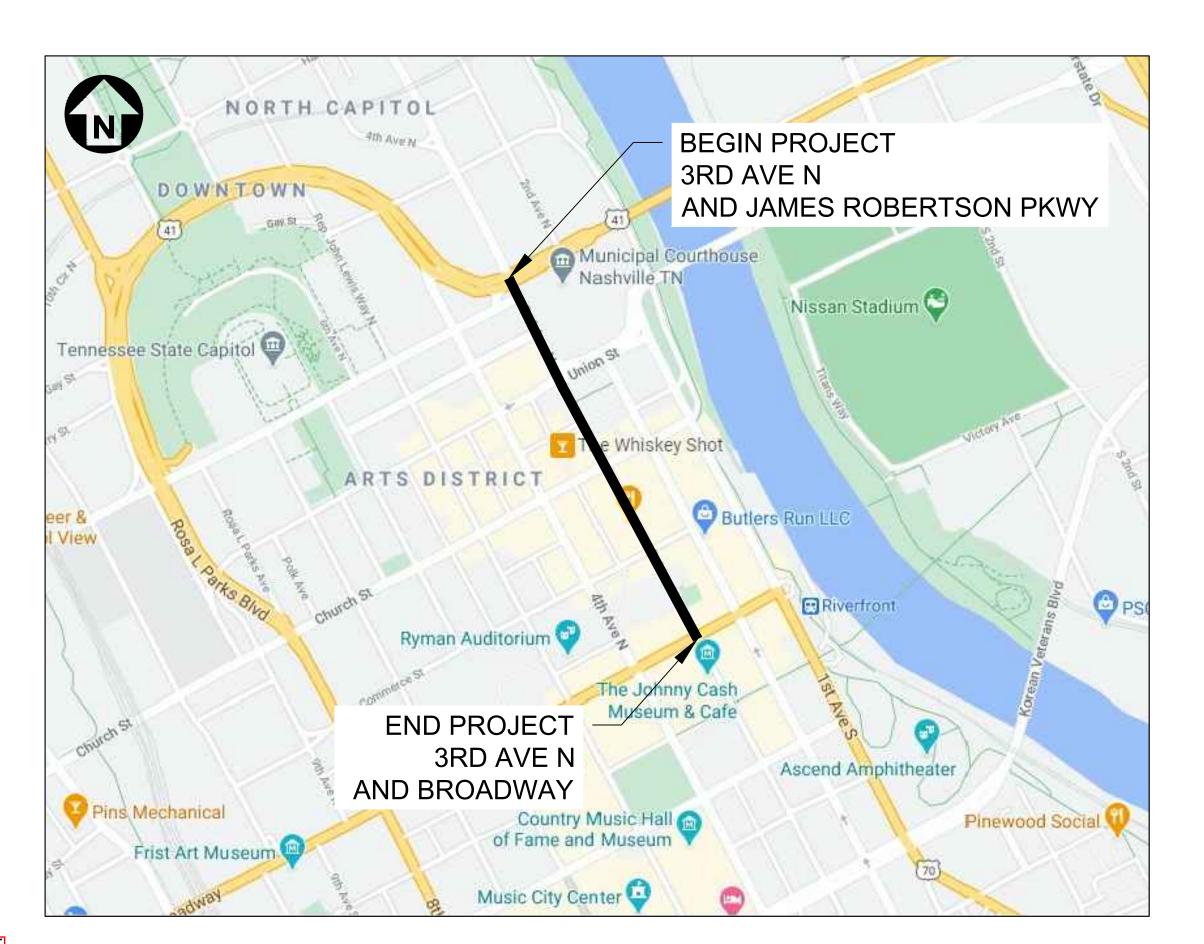
3RD AVENUE N BIKEWAY

NASHVILLE, TN. 3RD AVENUE N FROM JAMES ROBERTSON PARKWAY TO BROADWAY

INDEX OF SHEETS CONSTRUCTION

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES AND SIGN SCHEDULE
2A-2B	DETAIL SHEET
3-5	3RD AVENUE N BIKEWAY PROPOSED
	PAVEMENT MARKING & SIGNING PLAN
6	TRAFFIC SIGNAL MODIFICATION PLAN
	(3RD AVENUE N AND DEADERICK STREET)
7-7A	TRAFFIC SIGNAL MODIFICATION PLAN
	(3RD AVENUE N AND UNION STREET)
8	TRAFFIC SIGNAL MODIFICATION PLAN
	(3RD AVENUE N AND COMMERCE STREET)
9	TRAFFIC SIGNAL NOTES AND QUANTITIES



SPECIAL NOTE

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED: JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND THE PROPOSAL CONTRACT.

SPECIAL NOTE:
THE BASE SURVEY AND DESIGN INFORMATION FOR ROADWAY AND
UTILITIES PRESENTED ON THIS PLAN WERE PROVIDED TO KCI
TECHNOLOGIES, INC BY METRO PUBLIC WORKS. WHERE AVAILABLE,
BASE INFORMATION HAS BEEN SUPPLEMENTED BY PLANS OBTAINED FROM
METRO PUBLIC WORKS AND FIELD OBSERVATIONS BY THE ENGINEER.
KCI TECHNOLOGIES, INC MAKES NO CLAIMS AS TO THE COMPLETENESS
OR ACCURACY OF THE PROVIDED BASE INFORMATION.

DESIGNED BY KCI TECHNOLOGIES, INC.

DESIGNER JOSH GREEN, P.E.

P.E. NO. 118284

LOCATION MAP

NOT TO SCALE

APPROX. PROJECT LENGTH = 2,200 L.F. (0.42 L.M.)

*3RD AVENUE NORTH SPEED LIMIT IS NOT POSTED WITHIN PROJECT LIMITS

*NASHVILLE'S CURRENT CODE OF ORDINANCES SETS THE MAXIMUM SPEED LIMIT FOR A ROADWAY IN AN URBAN DISTRICT AS 30 M.P.H. IN THE ABSENCE OF A POSTED SPEED LIMIT.

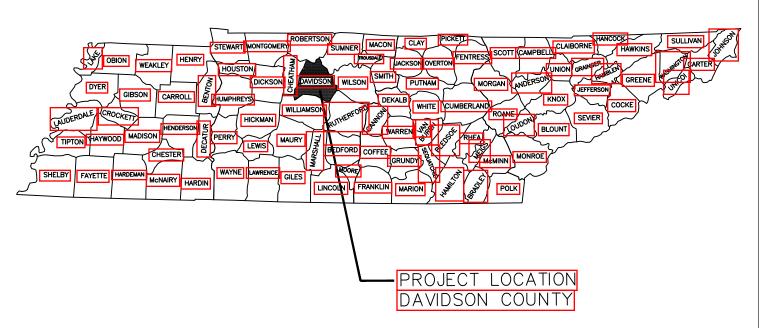
T.D.O.T. STANDARD DRAWINGS

RD-A-1	STANDARD ABBREVIATIONS STANDARD LEGEND
RD-L-1	STANDARD LEGEND
RD-L-2	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
T-M-1	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL
	ROADS AND MARKING ABBREVIATIONS
T-M-3	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS &
	PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AND
	OR ROUTES
T-M-12	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
	ON URBAN ROADWAYS
T-M-13	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-14	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
	AT INTERSECTIONS
T-S-9	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS
	ALUMINUM-STEEL DESIGN
T-S-16	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	STANDARD GROUND MOUNTED SIGN USING PERFORATED/
	KNOCKOUT SQUARE TUBE
	STANDARD STEEL SIGN SUPPORTS
T-S-20	SIGN DETAILS
T-SG-6	
T-SG-7A	TYPICAL SIGN HEAD PLACEMENT - APPROACHES WITH NO
	THROUGH MOVEMENTS
T-SG-7B	TYPICAL SIGN HEAD PLACEMENT — APPROACHES WITH NO
	THROUGH MOVEMENTS
T-SG-7C	TYPICAL SIGN HEAD PLACEMENT - ONE-LANE AND TWO-LANE
	APPROACHES
T-SG-7D	
T-SG-12	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS

METRO STANDARD DRAWINGS

ST-321	ALTERATION CONST. CURB RAMP W/ SIDEWALK LESS
	THAN 9 FEET
ST-502	BIKE LANES WITH ON-STREET PARKING PERMITTED
ST-503	BIKE LANES WITH ON-STREET PARKING PROHIBITED
ST-504	PAVEMENT MARKINGS AND SIGNS FOR BIKE LANES

PROJECT DEMONSTRATION NOTE:
THESE PLANS DETAIL PROPOSED BIKEWAY AND ROADWAY IMPROVEMENTS FOR TEMPORARY DEMONSTRATION PURPOSES ONLY. METRO PUBLIC WORKS SHALL DECIDE IF ANY PORTION OF THESE IMPROVEMENTS ARE TO BE REMOVED AT ANY TIME. PROPOSED SIGNAL MODIFICATION PLANS SHOULD ONLY BE IMPLEMENTED IF IMPROVEMENTS REMAIN PERMANENT.





891704370.13

04/16/2021

DESIGNED BY:

CHECKED BY: JMC

REVISION BLOCK

DRAWN BY:



ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36 CFR PARTS 1190 AND 1191, ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES, PROPOSED RULE. PUBLISHED IN THE FEDERAL REGISTER ON JULY 23, 2004, AS HAS BEEN

VCCEDTED	RY	
AUUFPIFIJ	Вĭ	:

DATE :

METROPOLITAN GOVERNMENT

OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
PUBLIC WORKS DEPARTMENT
FINGINFERING DIVISION

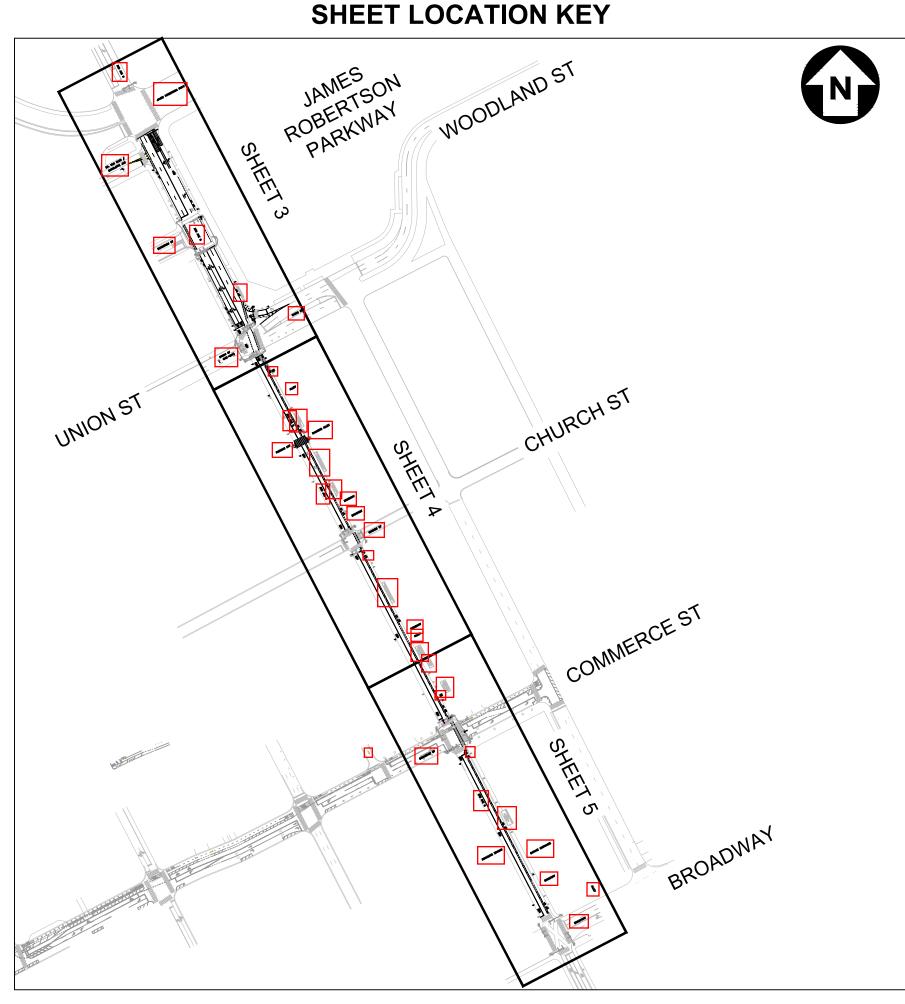
3RD AVENUE N BIKEWAY

Title Sheet

SCALE: N.T.S.

TRAFFIC DATA				
ROADWAY	LIMITS	MPH		
3RD AVENUE N	FROM JAMES ROBERTSON PARKWAY TO BROADWAY	30		
**SPECIAL NOTE(S):				

- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.)
- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ROADWAY MARKINGS AND SIGNS.
- BIKEWAY SIGNAGE SHALL BE PLACED PER DIRECTION OF FIELD ENGINEER.
- SHARROW AND BIKE LANE PAVEMENT MARKING SHALL BE PLACED PER DIRECTION OF FIELD ENGINEER.
- SHARROW AND BIKE LANE PAVEMENT MARKING SHALL NOT BE PLACED IN FRONT OF DRIVEWAYS. BIKEWAY PROJECT SHALL COORDINATE WITH METRO TRAFFIC DEPARTMENT.



FOOTNOTES

- ITEM INCLUDES ALL EXCLUSIVE BIKE LANE STOP LINES.
- COST USED FOR ESTIMATION PURPOSES ONLY. SUGGESTED MANUFACTURER (PEXCO, DAVIDSON TRAFFIC CONTROL PRODUCTS) OR METRO APPROVED EQUIVALENT TO BE USED. SEE SHEET 2A FOR DETAILS.
- ITEM INCLUDES 8" DYL ACROSS THE INTERSECTION OF 3RD AVENUE N AND UNION STREET.
- OR PAINT FOR APPLICABLE PAVEMENT MARKING ITEMS.
- SOLID COLORED PAVEMENT (EXTRUDED THERMOPLASTIC WITH ENHANCED TRACTION ADDITIVES) SHALL BE REQUIRED FOR INTERSECTION CONFLICT PAVEMENT MARKINGS. SUGGESTED MANUFACTURER (ENNIS-FLINT) OR METRO APPROVED EQUIVALENT TO BE USED. SEE SHEET 2A FOR DETAILS.
- ALL EXISTING CONFLICTING PAVEMENT MARKINGS TO BE REMOVED ON 3RD AVENUE NORTH WITHIN PROJECT LIMITS.
- ITEM INCLUDES 6' BICYCLE SYBMOLE W/ RIDER TO BE INSTALLED WITHIN THE BIKE BOX LOCATIONS AS SPECIFIED ON THE PLANS.
- ITEM TO BE INSTALLED WITHIN THE BIKEWAY BUFFER AT SIGNALIZED INTERSECTIONS AS SPECIFIED ON THE PLANS. SUGGESTED MANUFACTURER (IMPACT RECOVERY SYSTEMS) OR METRO APPROVED EQUIVALENT TO BE USED. SEE SHEET 2B FOR DETAILS.
- SYBMOL PAVEMENT MARKINGS SHALL NOT BE PLACED IN FRONT OF DRIVEWAYS AND SHALL BE PLACED PER DIRECTION OF FIELD ENGINEER IF LOCATIONS SPECIFIED ON THE PLANS CONFLICT WITH EXISTING FIELD CONDITIONS.
- SIGN SIZE TO BE 30" X 30".
- SIGN SIZE TO BE 12" X 18".
- SIGN FACE BACKGROUND TO BE FLUORESCENT YELLOW-GREEN.
- SIGN SIZE TO BE 36" X 30".
- SIGN SIZE TO BE 30" X 48".
- SIGN SIZE TO BE 12" X 9".
- IF COMBINED WITH ADDITIONAL PLAQUE, SIGNS TO BE ON A SINGLE FLAT ALUMINUM SHEET WITH A TOTAL SIZE OF 24" X 42".
- IF COMBINED WITH ADDITIONAL PLAQUE, SIGNS TO BE ON A SINGLE FLAT ALUMINUM SHEET WITH A TOTAL SIZE OF 30" X 42".

- BIKEWAY BUFFER PROTECTION MAY VARY, SUPPLIED BY METRO PUBLIC WORKS, ITEM & ASSOCIATED
- METRO PUBLIC WORKS MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR SPRAY THERMOPLASTIC
- ITEM INCLUDES BARRIER LINE MARKINGS AND CORNER RADIUS MARKINGS FOR THE URBAN SMART CHANNEL LAYOUT AT THE INTERSECTION OF UNION AVENUE AND 3RD AVENUE N. SEE SHEET 3 FOR

- SIGN SIZE TO BE 24" X 12".

3RD AVENUE NORTH - ESTIMATED PAVEMENT MARKING QUANTITIES

ITEM#	DESCRIPTION	UNIT	QUANTITY
712-01.52	TRAFFIC CONTROL WITH POLICE	HOUR	240
716-02.01	PLASTIC PAVEMENT MARKING (4" LINE - ROADWAY)	L.M.	0.80
716-02.01	PLASTIC PAVEMENT MARKING (4" LINE - BIKE LANE)	L.M.	0.30
716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	10
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	200
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	7
716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	25
716-02.09	PLASTIC PAVEMENT MARKING (CROSS-WALK - LONGITUDINAL BAR STYLE)	L.F.	35
716-02.10	PLASTIC PAVEMENT MARKING (6" LINE - BIKE LANE)	L.M.	0.40
716-02.10 BZ	PLASTIC PAVEMENT MARKING (6" LINE - BUFFER ZONE)	L.M.	0.10
716-02.11	PLASTIC PAVEMENT MARKING (6" DOTTED LINE - 2' LINE W/ 4' SKIP - BIKE LANE)	L.M.	0.05
716-02.12	PLASTIC PAVEMENT MARKING (8" LINE - BIKE LANE)	L.M.	0.10
716-02.36	PLASTIC PAVEMENT MARKING (90mil 8" DETAIL WORK - LOADING ZONES, ISLAND MARKINGS, BULBOUTS, ETC.)	L.F.	300
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	2
716-03.07	PLASTIC WORD PAVEMENT MARKING (STOP)	EACH	1
716-03.08	PLASTIC WORD PAVEMENT MARKING (PED-XING - WALKMAN PED LEGEND)	EACH	2
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	5
716-04.03	PLASTIC PAVEMENT MARKING (4" DOTTED LINE - 2' LINE W/ 4' SKIP - ROADWAY)	L.F.	10
716-04.03	PLASTIC PAVEMENT MARKING (4" DOTTED LINE - 2' LINE W/ 4' SKIP - BIKE LANE)	L.F.	50
716-04.11	PLASTIC PAVEMENT MARKING (BICYCLE W/ HELMETED RIDER SYMBOL ONLY)	EACH	5
716-04.13 <i>HR</i>	PLASTIC PAVEMENT MARKING (BICYCLE W/ HELMETED RIDER SYMBOL & DIRECTIONAL ARROW)	EACH	15
716-04.20	GREEN TEXTURED BIKE LANE (EXTRUDED THERMOPLASTIC)	S.Y.	350
716-04.24	PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW - "SHARROW ON GREEN BACKGROUND"	EACH	12
716-08.01	REMOVAL OF PAVEMENT MARKING (4" LINE)	L.F.	4200
716-08.01	REMOVAL OF PAVEMENT MARKING (4" LINE - PARKING)	L.F.	80
716-08.02	REMOVAL OF PAVEMENT MARKING (8" BARRIER LINE)	L.F.	85
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	220
716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH	5
716-08.07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	5
716-08.09	REMOVAL OF PAVEMENT MARKING (4" DOTTED LINE)	L.F.	70
920-19.05	INSTALLATION OF METRO SUPPLIED TUFF CURB XLP W/ TUBULAR MARKER	EACH	12
920-11.04	FG 300 SURFACE MOUNT CHANNELIZER POST, MODEL EFX, UR, PE, WITH METRO BASE (PEXCO)	EACH	74

3RD AVENUE NORTH - ESTIMATED ROADWAY QUANTITIES

UNIT

S.Y.

S.Y.

TON

S.F.

S.F.

S.F.

EACH

QUANTITY

15

50

25

200

50

16

20

DESCRIPTION

SIGNS (36" X 36" ALUMINUM FLAT SHEET, R10-15R, TURNING

SIGNS (36" X 36" ALUMINUM FLAT SHEET, R4-4, BEGIN

SIGNS (24" X 30" ALUMINUM FLAT SHEET, R10-6a, STOP

ADVANCE INTERSECTION LANE CONTROL MODIFIED WITH

SIGNS (24" X 12" ALUMINUM FLAT SHEET, R3-7bP, EXCEPT

SIGNS (24" X 18" ALUMINUM FLAT SHEET, R3-17, BIKE LANE)

SIGNS (24" X 18" ALUMINUM FLAT SHEET, W16-18P, NOTICE

SIGNS (24" X 18" ALUMINUM FLAT SHEET, R9-5, BIKES USE

SIGNS (30" X 36" ALUMINUM FLAT SHEET, R10-11a, NO TURN

SIGNS (30" X 36" ALUMINUM FLAT SHEET, R4-11, BIKES MAY

DETECTABLE WARNINGS (SPECIFICATION 02523) (ST-329,

SIGNS (24" X 18" ALUMINUM FLAT SHEET, W16-9P, AHEAD

SIGNS (24" X 12" ALUMINUM FLAT SHEET, R3-7bP MOD.,

SIGNS (48" X 48" ALUMINUM FLAT SHEET, R3-8 MOD.

(7)

ITEM#

701-02.01

713-16.21

713-16.21

713-16.22

713-16.25

713-16.27

713-16.27

713-16.30

713-16.31

713-16.31

713-16.31

713-16.31

713-16.33

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PW-DW-001

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(18)

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(19)

(17)

(13)(14)

(13)(14)

(12)

(19)

(11)(13)

(11)

202-03.04 REMOVE SIDEWALK (CONCRETE)

701-01.01 | CONCRETE SIDEWALK (4")

CONC. DRIVEWAY-6"

BICYCLES PLAQUE)

PLAQUE)

PED SIGNAL)

PEDESTRIAN)

USE FULL LANE)

202-03.05 REMOVE CONCRETE DRIVE (6" TO 8")

CONCRETE CURB RAMP-6"

713-15.36 REMOVE SIGN, SUPPORT, & FOOTING

MINERAL AGGREGATE, TYPE A, GRADING D

VEHICLES YIELD TO BIKE/PED, RIGHT)

RIGHT TURN LANE YIELD TO BIKES)

EXCEPT BICYCLES OVERSIZE PLAQUE)

DIRECTIONAL ARROW STRAIGHT)

SIGNS (12" X 36" ALUMINUM FLAT SHEET, M6-3,

SIGNS (30" X 36" ALUMINUM FLAT SHEET, W11-2,

SIGNS (30" X 36" ALUMINUM FLAT SHEET, R1-1, STOP)

HERE ON RED WITH ARROW)

52	TRAFFIC CONTROL WITH POLICE	HOUR	240
01	PLASTIC PAVEMENT MARKING (4" LINE - ROADWAY)	L.M.	0.80
01	PLASTIC PAVEMENT MARKING (4" LINE - BIKE LANE)	L.M.	0.30
04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	10
05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	200
06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	7
08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	25
09	PLASTIC PAVEMENT MARKING (CROSS-WALK - LONGITUDINAL BAR STYLE)	L.F.	35
10	PLASTIC PAVEMENT MARKING (6" LINE - BIKE LANE)	L.M.	0.40
BZ	PLASTIC PAVEMENT MARKING (6" LINE - BUFFER ZONE)	L.M.	0.10
11	PLASTIC PAVEMENT MARKING (6" DOTTED LINE - 2' LINE W/4' SKIP - BIKE LANE)	L.M.	0.05
12	PLASTIC PAVEMENT MARKING (8" LINE - BIKE LANE)	L.M.	0.10
36	PLASTIC PAVEMENT MARKING (90mil 8" DETAIL WORK - LOADING ZONES, ISLAND MARKINGS, BULBOUTS, ETC.)	L.F.	300
01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	2
07	PLASTIC WORD PAVEMENT MARKING (STOP)	EACH	1
08	PLASTIC WORD PAVEMENT MARKING (PED-XING - WALKMAN PED LEGEND)	EACH	2
01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	5
03	PLASTIC PAVEMENT MARKING (4" DOTTED LINE - 2' LINE W/ 4' SKIP - ROADWAY)	L.F.	10
03	PLASTIC PAVEMENT MARKING (4" DOTTED LINE - 2' LINE W/ 4' SKIP - BIKE LANE)	L.F.	50
11	PLASTIC PAVEMENT MARKING (BICYCLE W/ HELMETED RIDER SYMBOL ONLY)	EACH	5
HR	PLASTIC PAVEMENT MARKING (BICYCLE W/ HELMETED RIDER SYMBOL & DIRECTIONAL ARROW)	EACH	15
20	GREEN TEXTURED BIKE LANE (EXTRUDED THERMOPLASTIC)	S.Y.	350
24	PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW - "SHARROW ON GREEN BACKGROUND"	EACH	12
01	REMOVAL OF PAVEMENT MARKING (4" LINE)	L.F.	4200
01	REMOVAL OF PAVEMENT MARKING (4" LINE - PARKING)	L.F.	80
02	REMOVAL OF PAVEMENT MARKING (8" BARRIER LINE)	L.F.	85
05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	220
06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH	5
07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	5
09	REMOVAL OF PAVEMENT MARKING (4" DOTTED LINE)	L.F.	70

	FILE N	O.	89170437	0.13
	DATE:		04/16/20	21
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•	DRAWN	BY:	JEG	
	CHECKE	ED BY:	JMC	
		REVIS	ION BLOCK	
	DATE:			





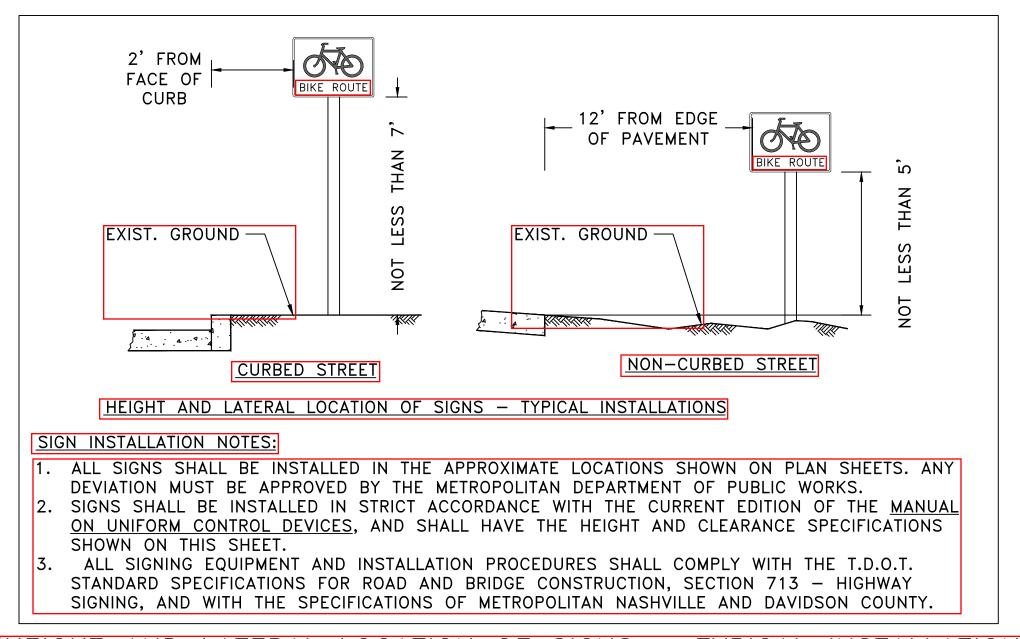
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

> 3RD AVENUE N **BIKEWAY**

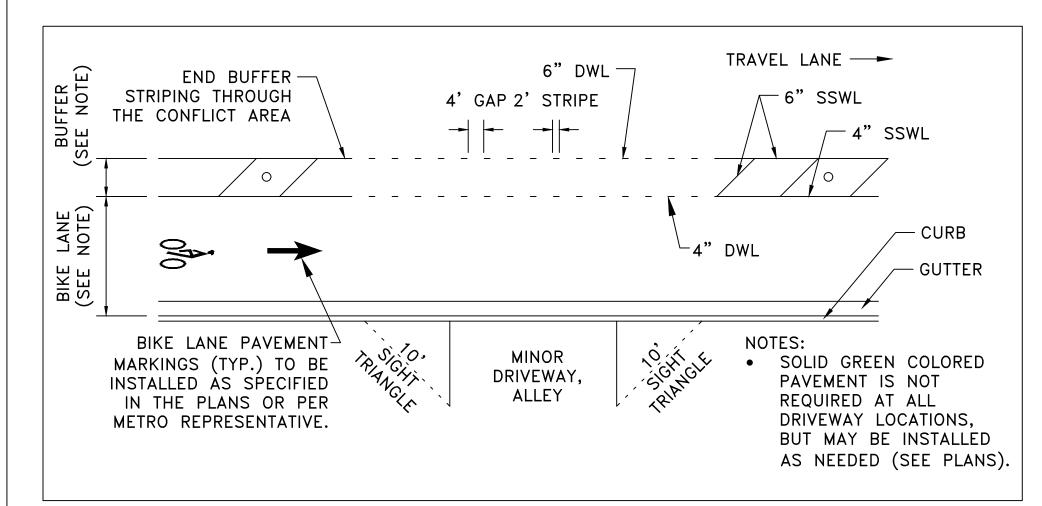
Estimated Quantities and Sign Schedule

SHEET 2

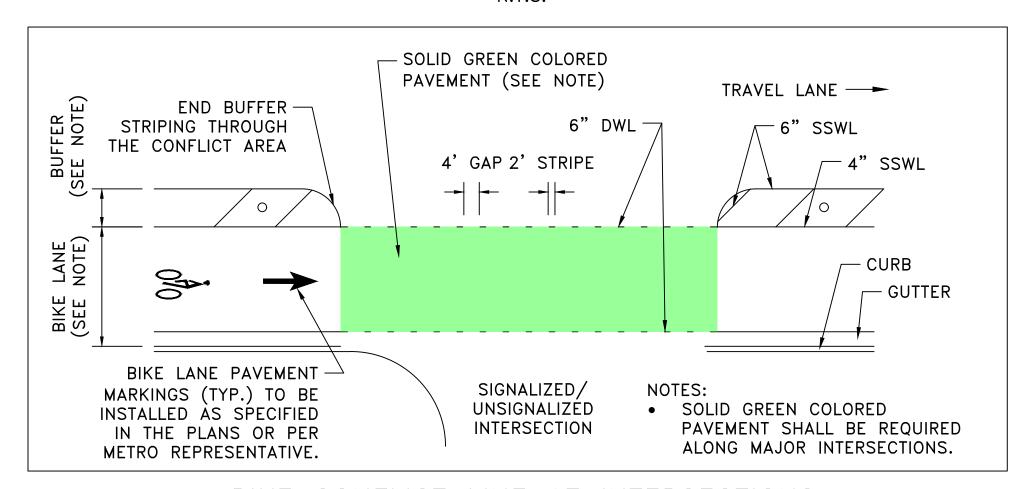
SCALE: N.T.S.



HEIGHT AND LATERAL LOCATION OF SIGNS — TYPICAL INSTALLATION



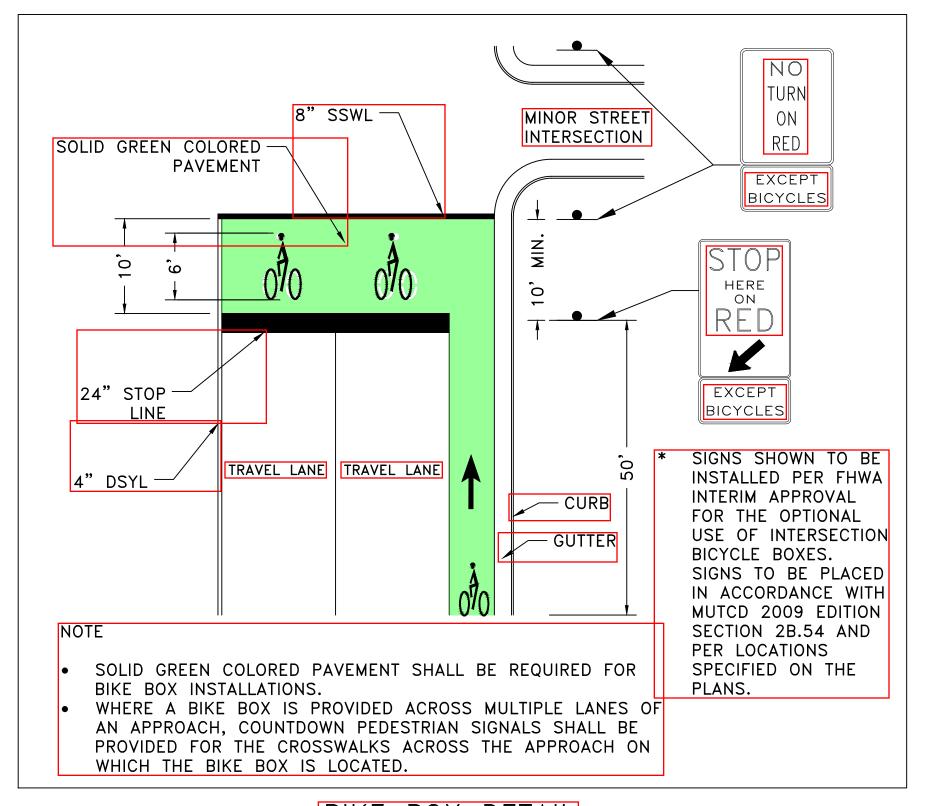
SITE TRIANGLE & BIKE CONFLICT LINE DETAIL AT DRIVEWAYS N.T.S.



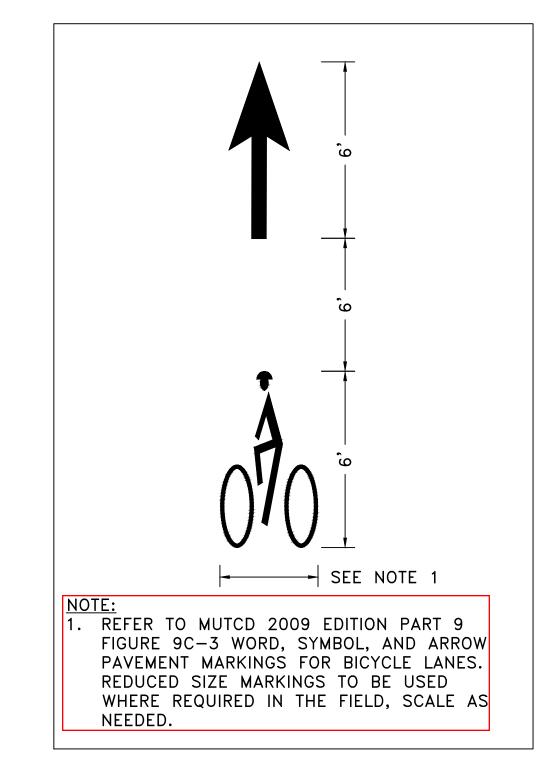
BIKE CONFLICT LINE AT INTERSECTIONS

S:

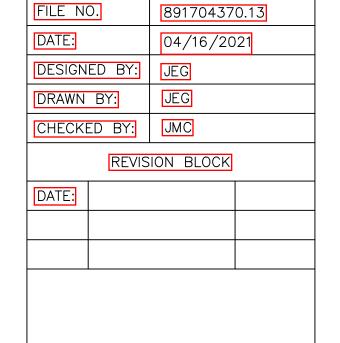
- BIKE LANE WIDTH AND BUFFER WIDTH SPECIFIED ON THE PLANS. BIKE LANE WIDTH DIMENSION SHOWN
 ON THE PLANS INCLUDES THE EXIST. GUTTER PAN.
- 36" WHITE FLEXIBLE DELINEATOR POSTS TO BE INSTALLED WITHIN THE BUFFER AT 20' SPACING CONTRACTOR TO COORDINATE WITH MPW PRIOR TO INSTALLATION.



BIKE BOX DETAIL N.T.S.



BIKE LANE PAVEMENT MARKING DETAIL
N.T.S.







NOTES: REFLECTIVE INSTALLATION TO BE TAPE, TYP. COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY — 2.98" —— VARY BETWEEN MANUFACTURERS. SECTION A-A COLOR OF POST SHALL MATCH COLOR OF ---DELINEATOR APPLICABLE EDGE LINE AS POST, TYP. NOTED IN THE PLANS. SEE PLANS • SUGGESTED MANUFACTURERS FOR COLOR. INCLUDE: PEXCO DAVIDSON HOLES FOR BASE MOUNT TRAFFIC CONTROL. SUPERIOR TRAFFIC CONTROL OR APPROVED BY METRO REPRESENTATIVE ∕-BASE DELINEATORS SHALL BE SPACED 20' CENTER-TO-CENTER OR AS ------ 8" -----SPECIFIED IN THE PLANS. CONTRACTOR TO POST IS COORDINATE WITH MPW RETAINED TO SHOWN WITH TYPICAL PRIOR TO INSTALLATION. BASE WITH 2 REFLECTIVE TAPE APPLIED PINS

36" FLEXIBLE DELINEATOR POST DETAIL
N.T.S.

METROPOLITAN GOVERNMENT

OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE

PUBLIC WORKS DEPARTMENT

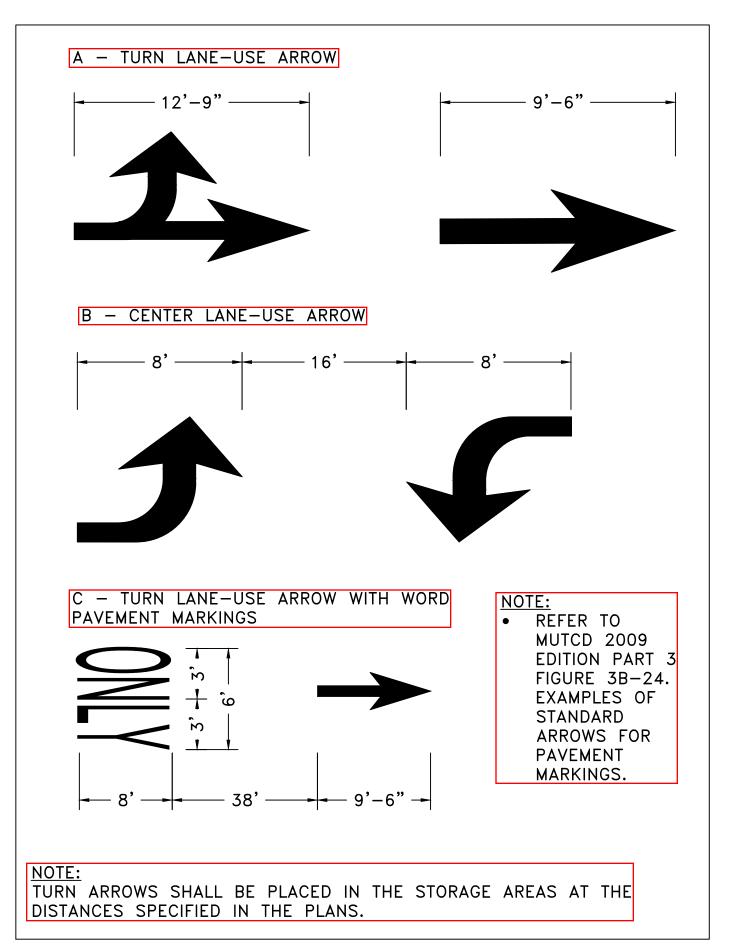
ENGINEERING DIVISION

3RD AVENUE N BIKEWAY

Detail Sheet

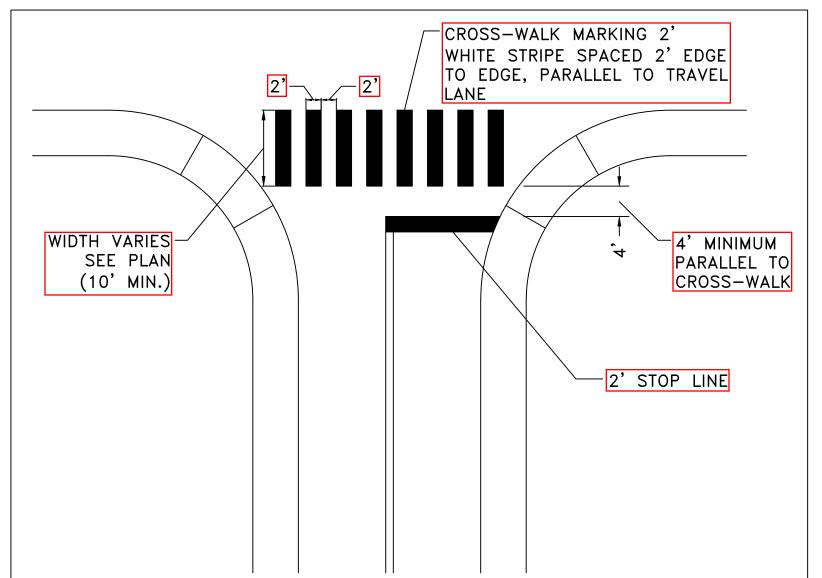
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SHEET 2A

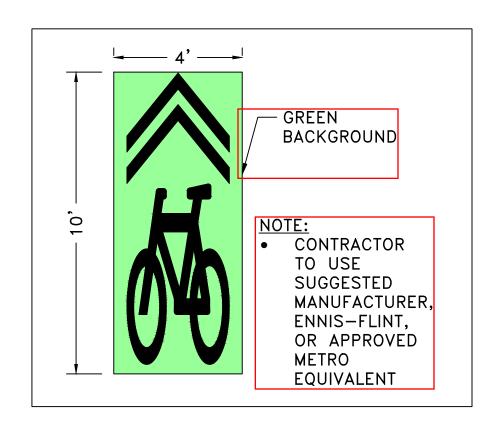


TURN LANE ARROW DETAIL
N.T.S.

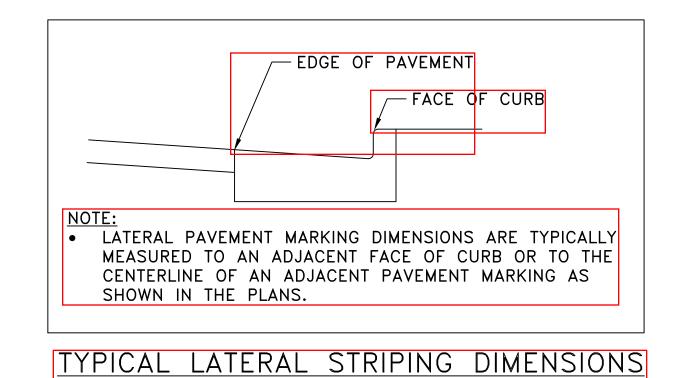
DESCRIPTION			NO.	SIZE	SIGN ID	S.F.	POST TYPE
S1	ONLY ONLY	ADVANCE INTERSECTION LANE CONTROL (MODIFIED WITH BIKE LANE)	1	30 " x 48 "	R3-8 (MOD.)	10	P8
S2	USE PED SIGNAL	BIKES USE PED SIGNAL	5	12 " x 18 "	R9-5	7.5	
S3		DIRECTIONAL ARROW (STRAIGHT)	1	12 " x 9 "	M6-3	0.75	
S4	STOP HERE ON RED	STOP HERE ON RED WITH ARROW	3	24 " x 30 "	R10-6a	15	P8
S19	EXCEPT BICYCLES	EXCEPT BICYCLES PLAQUE	2	24 " x 12 "	R3-7bP	4	
S5	TURN ON	NO TURN ON RED	5	30 " x 36 "	R10-11a	37.5	P8
S6	RED EXCEPT BICYCLES	EXCEPT BICYCLES PLAQUE (OVERSIZE)	5	30 " x 12 "	R3-7bP (MOD.)	12.5	
S7	TURNING VEHICLES	TURNING VEHICLES YIELD TO BIKE/PED (RIGHT)	7	30 " x 30 "	R10-15R	43.75	
S8	STOP	STOP	1	30 " x 30 "	R1-1	5.18	P8
S9		PEDESTRIAN (FYG)	2	30 " x 30 "	W11-2	12.5	P8
S10				NOT USED			
S11	AHEAD	AHEAD (FYG)	2	24 " x 12 "	W16-9P	4	
S12	NOTICE	NOTICE PLAQUE (FYG)	5	24 " x 12 "	W16-18P	10	
S13	MAY USE FULL LANE	BIKES MAY USE FULL LANE	5	30 " x 30 "	R4-11	31.25	P8
S14	BIKE LANE	BIKE LANE	5	24 " x 18 "	R3-17	15	U3
S15	RIGHT TURN LANE YIELD TO BIKES	BEGIN RIGHT TURN LANE YIELD TO BIKES	1	36 " x 30 "	R4-4	7.5	P8
S16	SIGNAL	BIKE SIGNAL	1	12 " x 18 "	R10-10b	1.5	



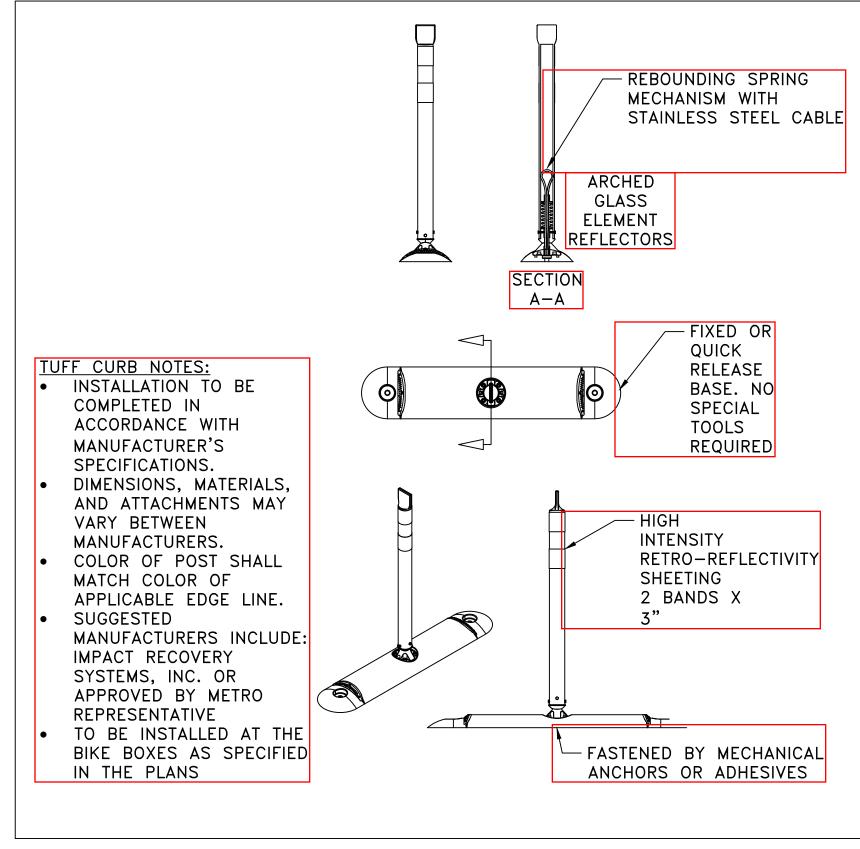
TYPICAL STOP LINE PLACEMENT AND CROSS-WALK MARKINGS N.T.S.



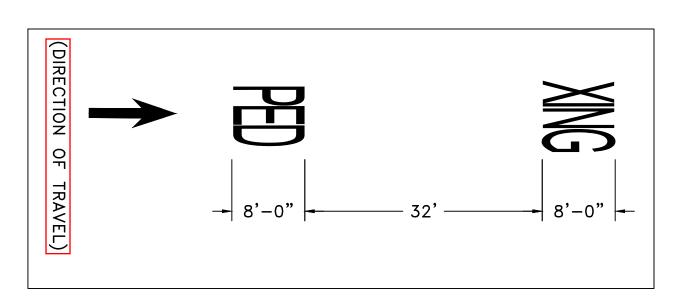
SHARROW W/ GREEN BACKGROUND
PAVEMENT MARKING DETAIL
N.T.S.



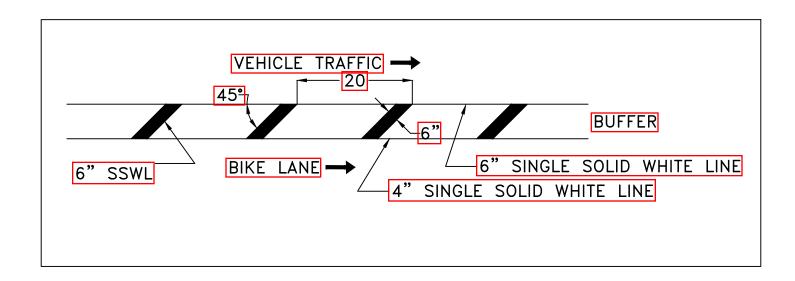
N.T.S.



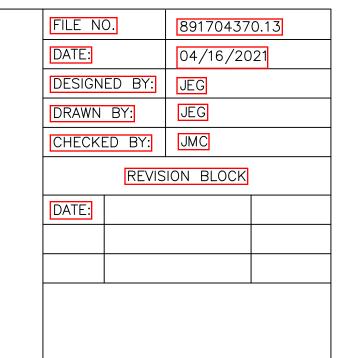
TUFF CURB XLP WITH TUBULAR MARKER DETAIL
N.T.S.



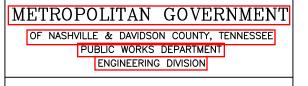
WORD PAVEMENT MARKING DETAIL
N.T.S.



BIKE LANE BUFFER PAVEMENT MARKINGS
N.T.S.





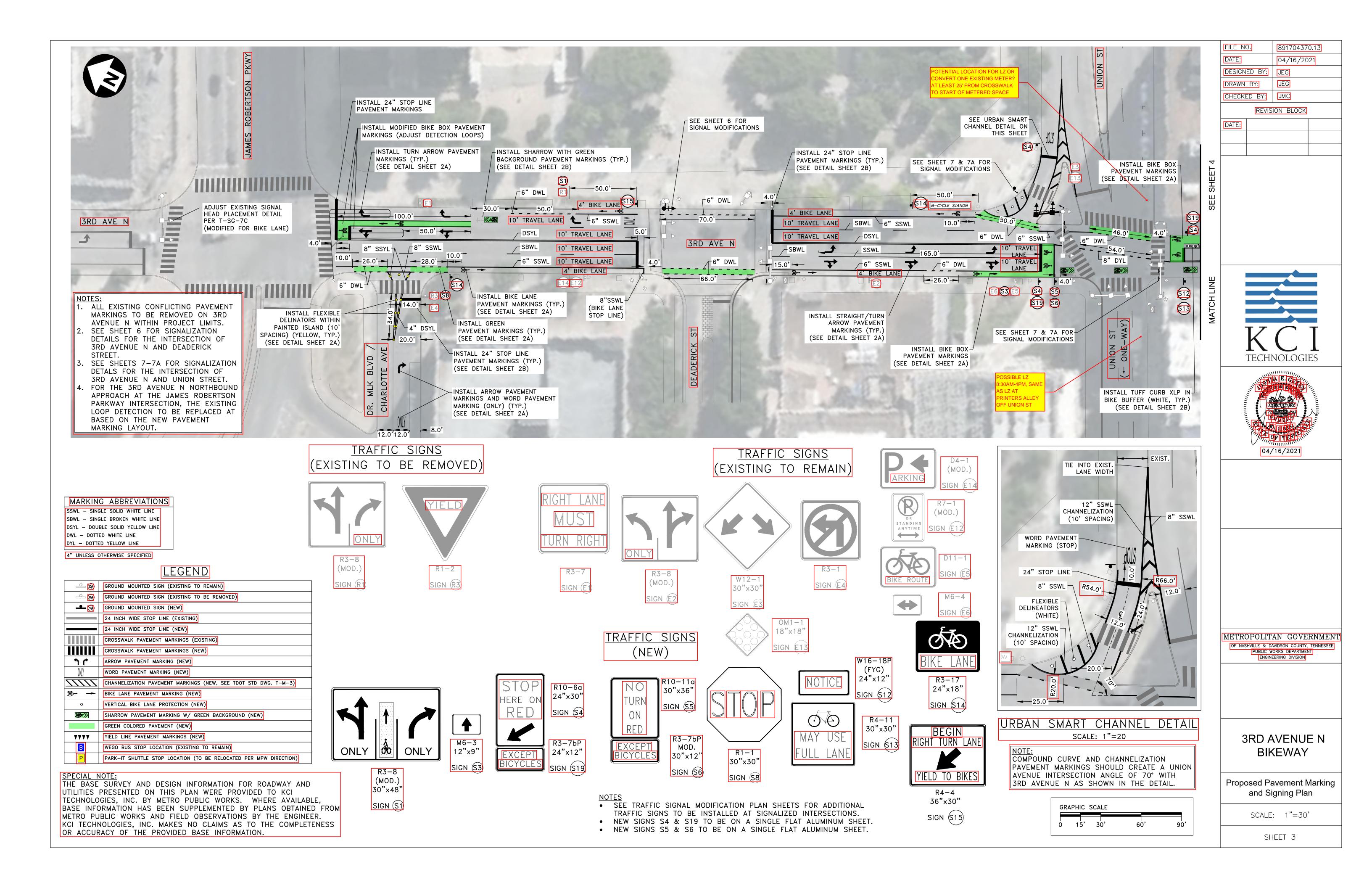


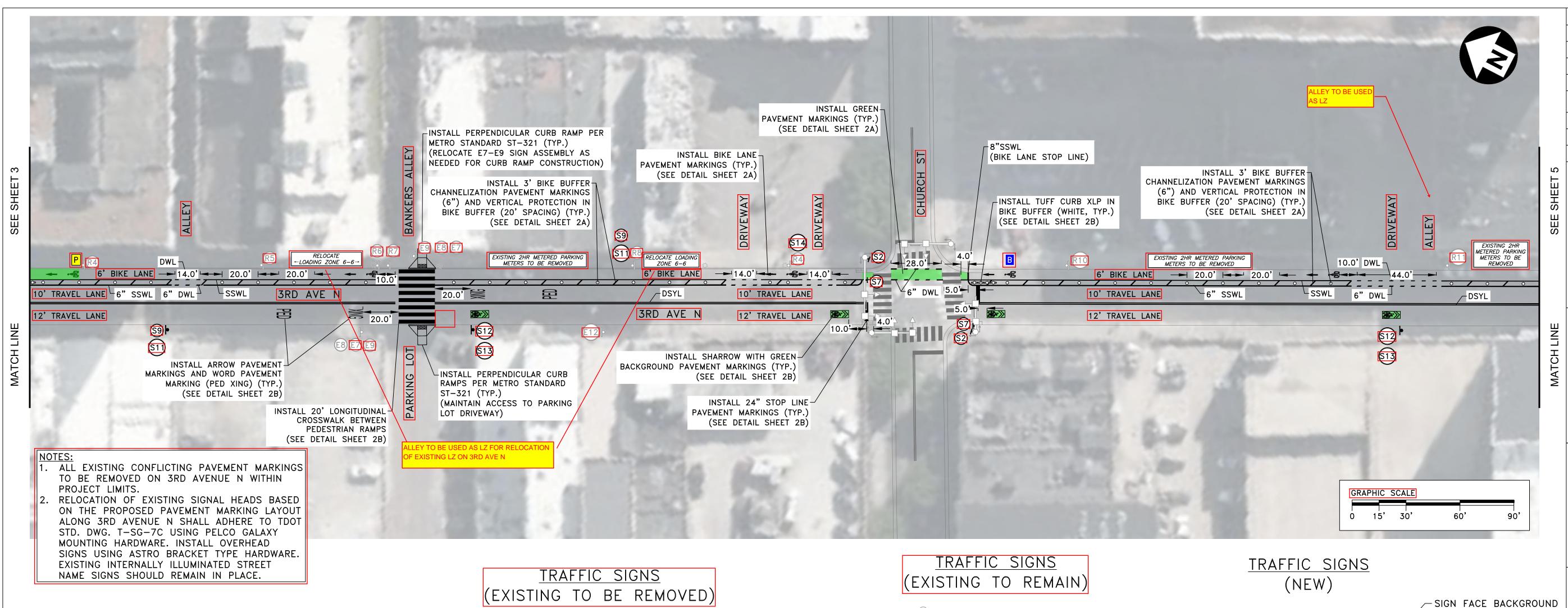


Detail Sheet

SCALE: N.T.S.

SHEET 2B





MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE SBWL - SINGLE BROKEN WHITE LINE DSYL - DOUBLE SOLID YELLOW LINE DWL - DOTTED WHITE LINE DYL - DOTTED YELLOW LINE

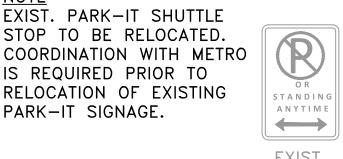
4" UNLESS OTHERWISE SPECIFIED

LEGEND

GROUND MOUNTED SIGN (EXISTING TO REMAIN) GROUND MOUNTED SIGN (EXISTING TO BE REMOVED) GROUND MOUNTED SIGN (NEW) 24 INCH WIDE STOP LINE (EXISTING) 24 INCH WIDE STOP LINE (NEW) CROSSWALK PAVEMENT MARKINGS (EXISTING) CROSSWALK PAVEMENT MARKINGS (NEW) ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) O VERTICAL BIKE LANE PROTECTION (NEW)
GROUND MOUNTED SIGN (NEW) 24 INCH WIDE STOP LINE (EXISTING) 24 INCH WIDE STOP LINE (NEW) CROSSWALK PAVEMENT MARKINGS (EXISTING) CROSSWALK PAVEMENT MARKINGS (NEW) ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) VERTICAL BIKE LANE PROTECTION (NEW)
24 INCH WIDE STOP LINE (EXISTING) 24 INCH WIDE STOP LINE (NEW) CROSSWALK PAVEMENT MARKINGS (EXISTING) CROSSWALK PAVEMENT MARKINGS (NEW) ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) O VERTICAL BIKE LANE PROTECTION (NEW)
24 INCH WIDE STOP LINE (NEW) CROSSWALK PAVEMENT MARKINGS (EXISTING) CROSSWALK PAVEMENT MARKINGS (NEW) ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) VERTICAL BIKE LANE PROTECTION (NEW)
CROSSWALK PAVEMENT MARKINGS (EXISTING) CROSSWALK PAVEMENT MARKINGS (NEW) ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) VERTICAL BIKE LANE PROTECTION (NEW)
CROSSWALK PAVEMENT MARKINGS (NEW) ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) VERTICAL BIKE LANE PROTECTION (NEW)
ARROW PAVEMENT MARKING (NEW) WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) VERTICAL BIKE LANE PROTECTION (NEW)
WORD PAVEMENT MARKING (NEW) CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T−M−3) BIKE LANE PAVEMENT MARKING (NEW) ∨ VERTICAL BIKE LANE PROTECTION (NEW)
CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3) BIKE LANE PAVEMENT MARKING (NEW) O VERTICAL BIKE LANE PROTECTION (NEW)
BIKE LANE PAVEMENT MARKING (NEW) O VERTICAL BIKE LANE PROTECTION (NEW)
VERTICAL BIKE LANE PROTECTION (NEW)
· · ·
CHARDOW DAVENERS MADRING W/ OBEEN DACKOROUND (NEW)
SHARROW PAVEMENT MARKING W/ GREEN BACKGROUND (NEW)
GREEN COLORED PAVEMENT (NEW)
▼▼▼ YIELD LINE PAVEMENT MARKINGS (NEW)
B WEGO BUS STOP LOCATION (EXISTING TO REMAIN)
PARK-IT SHUTTLE STOP LOCATION (TO BE RELOCATED PER MPW DIRECTION)

SPECIAL NOTE:

THE BASE SURVEY AND DESIGN INFORMATION FOR ROADWAY AND UTILITIES PRESENTED ON THIS PLAN WERE PROVIDED TO KCI TECHNOLOGIES, INC. BY METRO PUBLIC WORKS. WHERE AVAILABLE, BASE INFORMATION HAS BEEN SUPPLEMENTED BY PLANS OBTAINED FROM METRO PUBLIC WORKS AND FIELD OBSERVATIONS BY THE ENGINEER. KCI TECHNOLOGIES, INC. MAKES NO CLAIMS AS TO THE COMPLETENESS OR ACCURACY OF THE PROVIDED BASE INFORMATION.



EXIST. PARK-IT SHUTTLE

STOP TO BE RELOCATED.

IS REQUIRED PRIOR TO

PARK-IT SIGNAGE.

RELOCATION OF EXISTING

EXIST. PARKING

SIGN (R4)

ZONE

 \rightarrow

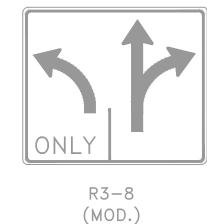
LOADING





ASSEMBLY

SIGN (R5)



SIGN (R6)















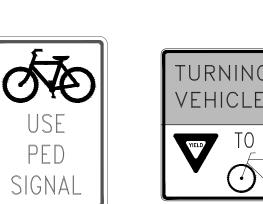
PARKING SIGN (R11)

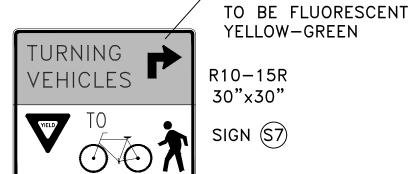




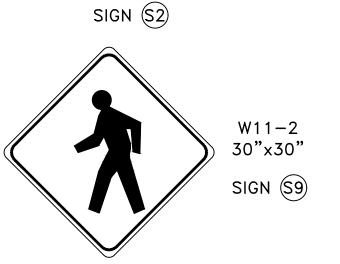
SIGN (E12)

BANKERS Alle SIGN (E9)





W16-18P



R9 - 5

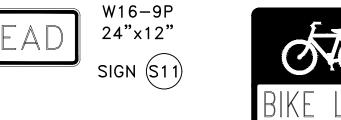
12"x18"





(FYG)





R3 - 1724"x18"

SIGN (\$14) SEE TRAFFIC SIGNAL MODIFICATION PLAN SHEETS FOR ADDITIONAL TRAFFIC SIGNS TO BE INSTALLED AT SIGNALIZED INTERSECTIONS.

3RD AVENUE N **BIKEWAY**

METROPOLITAN GOVERNMENT

OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

891704370.13

04/16/2021

JMC

REVISION BLOCK

TECHNOLOGIES

04/16/2021

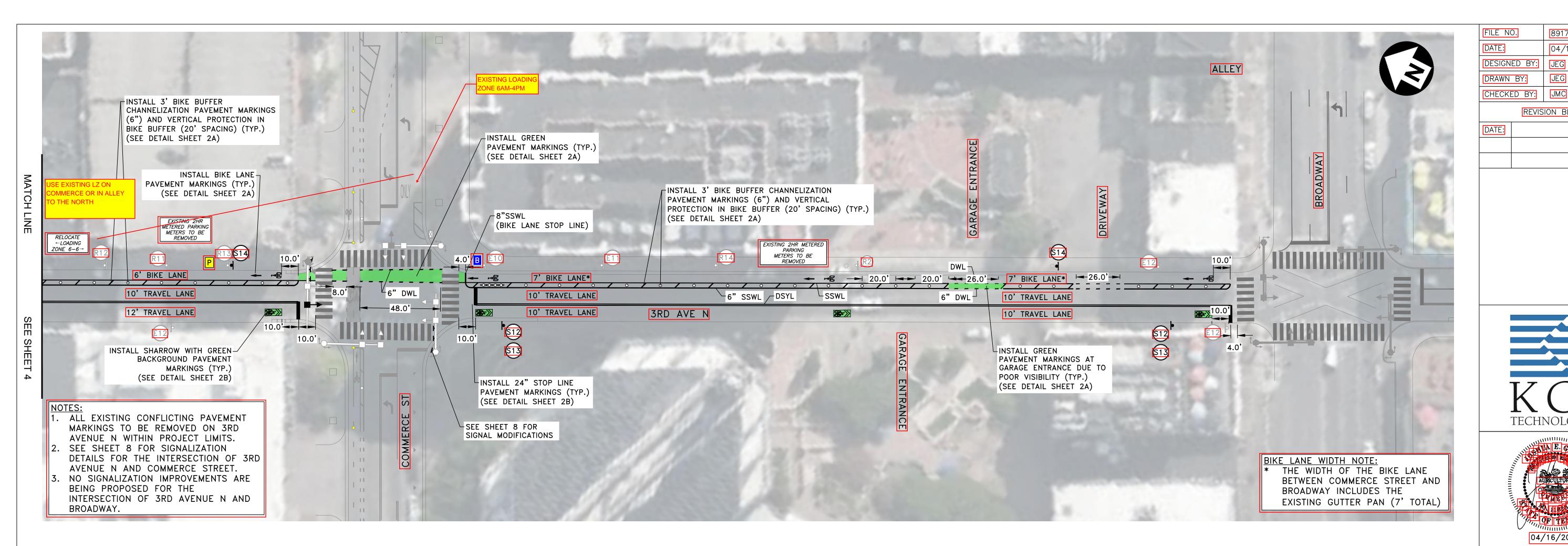
DESIGNED BY:

CHECKED BY:

DRAWN BY:

Proposed Pavement Marking and Signing Plan

SCALE: 1"=30'



MARKING ABBREVIATIONS SSWL - SINGLE SOLID WHITE LINE SBWL – SINGLE BROKEN WHITE LINE DSYL - DOUBLE SOLID YELLOW LINE

4" UNLESS OTHERWISE SPECIFIED

DWL - DOTTED WHITE LINE

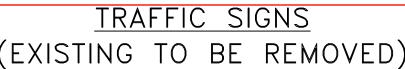
DYL - DOTTED YELLOW LINE

LEGEND

	LEGEND
<u> </u>	GROUND MOUNTED SIGN (EXISTING TO REMAIN)
	GROUND MOUNTED SIGN (EXISTING TO BE REMOVED)
<u> </u>	GROUND MOUNTED SIGN (NEW)
	24 INCH WIDE STOP LINE (EXISTING)
	24 INCH WIDE STOP LINE (NEW)
	CROSSWALK PAVEMENT MARKINGS (EXISTING)
	CROSSWALK PAVEMENT MARKINGS (NEW)
ጎተ	ARROW PAVEMENT MARKING (NEW)
ONLY	WORD PAVEMENT MARKING (NEW)
	CHANNELIZATION PAVEMENT MARKINGS (NEW, SEE TDOT STD DWG. T-M-3)
% →	BIKE LANE PAVEMENT MARKING (NEW)
0	VERTICAL BIKE LANE PROTECTION (NEW)
*	SHARROW PAVEMENT MARKING W/ GREEN BACKGROUND (NEW)
	GREEN COLORED PAVEMENT (NEW)
***	YIELD LINE PAVEMENT MARKINGS (NEW)
В	WEGO BUS STOP LOCATION (EXISTING TO REMAIN)
Р	PARK-IT SHUTTLE STOP LOCATION (TO BE RELOCATED PER MPW DIRECTION)

SPECIAL NOTE:

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ASSEMBL)

SIGN R2



SIGN (R11



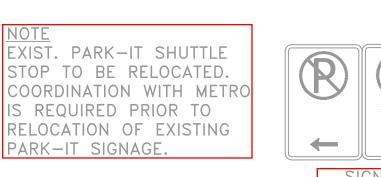














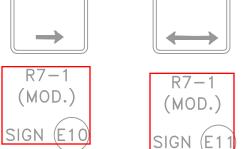
ASSEMBLY

SIGN (R14)

TRAFFIC SIGNS (EXISTING TO REMAIN)



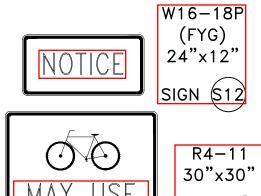






SIGN (E12

TRAFFIC SIGNS (NEW)



R3-17 24"×18" SIGN (\$13 SIGN (\$14)

SEE TRAFFIC SIGNAL MODIFICATION PLAN SHEETS FOR ADDITIONAL TRAFFIC SIGNS TO BE INSTALLED AT SIGNALIZED INTERSECTIONS.



ENGINEERING DIVISION

891704370.13

04/16/2021

REVISION BLOCK

TECHNOLOGIES

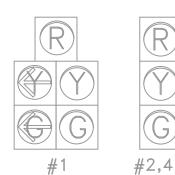
3RD AVENUE N **BIKEWAY**

Proposed Pavement Marking and Signing Plan

SCALE: 1"=30'

GRAPHIC SCAL	<u> </u>	
0 15' 30'	60'	90'

SIGNAL HEAD DISPLAYS (EXIST.)



RELOCATE EXISTING SIGNAL **HEAD NOTE:**

• EXISTING SIGNAL HEADS (#1,2,6) TO BE RELOCATED BASED ON THE PROPOSED PAVEMENT

MARKING LAYOUT. SEE TDOT STD. DWG. T-SG-7C & T-SG-7D.

BIKE SIGNAL HEAD NOTES:

SIGNAL INDICATIONS.

BACKPLATE.

■ RETRO REFLECTIVE TAPE 1"-3"

WIDE SHOULD BE PLACED AROUND

THE PERIMETER OF BIKE SIGNAL

• NEW BIKE SIGNAL HEAD TO HAVE 8"

SIGNAL HEAD TO BE POSITIONED

R10-15R

30"x30"

SIGN (S7)

EXISTING SIGNAL POLE, DIRECTLY BELOW

THE EXISTING PEDESTRIAN SIGNAL HEAD P2. SIGN TO HAVE BLACK LEGEND ON

SIGN TO HAVE BLACK LEGEND ON WHITE

NEW SIGN S7 MOUNTED TO EXISTING MAST

ARM TO BE 4' MINIMUM FROM NEAREST

SIGN S16 TO BE MOUNTED DIRECTLY ADJACENT TO NEW BIKE SIGNAL HEAD.

TRAFFIC SIGN NOTES:
• SIGN S2 TO BE MOUNTED ON THE

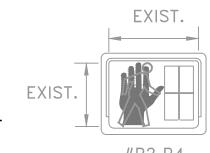
WHITE BACKGROUND.

SIGNAL HEAD AND SIGN.

BACKGROUND.

LEGEND

LATERALLY OVER THE EXISTING CURB LINE ON THE EXISTING MAST ARM.



COUNTDOWN TYPE L.E.D PED WITH OVERLAPPING SOLID SYMBOLS

COLOR LEGEND MAN - WHITE HAND - PORTLAND ORANGE

POLE #2

(PEDESTAL, EXIST

GENERAL NOTES:

FIELD VERIFY.

SEE PAVEMENT MARKING SHEETS

AND ADDITIONAL SIGN DETAILS

ALONG 3RD AVENUE N.

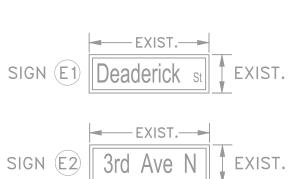
FOR PROPOSED PAVEMENT MARKING

EXISTING CONDUIT AND PULLBOXES

ARE SHOWN FOR REPRESENTATION

PURPOSES ONLY. CONTRACTOR TO

OVERHEAD STREET NAME SIGNS (SNS) (EXIST.)



EXISTING INTERNALLY ILLUMINATED STREET NAME SIGNS SHOULD REMAIN IN PLACE.

3RD NE

TRAFFIC SIGNAL

CONTROLLER

POLE #3

(SIGNAL, EXIST.

POLE #4

(PEDESTAL, EXIST.

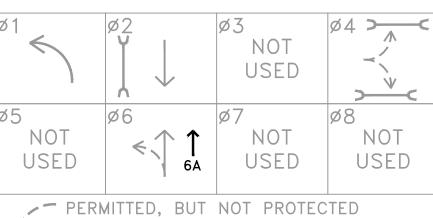
EXIST. CONDUIT

PAVEMENT

MARKINGS PER PLAN

(TYP.)

PHASING DIAGRAM (EXIST.)



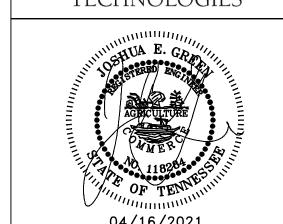
MOVEMENT 6A TO BE CONTROLLED BY BIKE SIGNAL AND TO INCLUDE LEADING BIKE INTERVAL (LBI) IN CONJUNCTION WITH LEADING PEDESTRIAN INTERVAL (LPI) FOR PHASE P2

FILE NO. 891704370.13 DATE: 04/16/2021 DESIGNED BY: JEG DRAWN BY: JEG CHECKED BY: JMC

REVISION BLOCK

DATE:

TECHNOLOGIES





METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

INTERSECTION NO. 1160

TRAFFIC SIGNAL MODIFICATION PLAN

3rd Avenue N and **Deaderick Street**

SCALE: 1"=20'

SHEET 6

POLE #2 (PEDESTAL, EXIST.) - 2**-**7C POLE #4 (PEDESTAL, EXIST.) POLE #1-(SIGNAL, EXIST.) WIRING NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDUIT AND WIRING. ALL EXISTING WIRING TO REMAIN. NEW WIRING TO BE PROVIDED FOR NEW SIGNAL HEADS AND RELOCATION OF EXISTING SIGNAL TRAFFIC SIGNAL HEADS AS NEEDED, AS SHOWN. CONTROLLER

WIRING DIAGRAM

SCALE: 1"=20'

- POLE #3

(SIGNAL, EXIST.)

TYPICAL MOTOR

VEHICLE SIGNAL HEAD

PLACEMENT DETAIL

(PER TDOT STD. DWG. T-SG-7D)

PROTECTED / PERMISSIVE LEFT

TURN PHASING

(EXISTING SIGNAL HEADS #1,6)

(PROPOSED SIGNAL HEAD #6A)

8 FT. MIN. 12 FT. MAX.

BIKE —

SIGNAL

HEAD

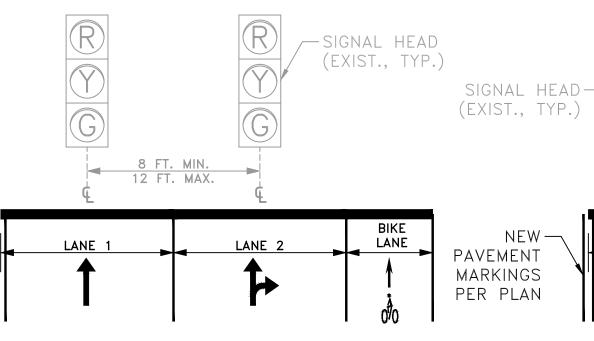
(NEW)

8 FT. MIN. 12 FT. MAX.

BIKE LANE

TYPICAL MOTOR VEHICLE SIGNAL HEAD PLACEMENT DETAIL

(PER TDOT STD. DWG. T-SG-7C)



PERMISSIVE LEFT TURN PHASING (EXISTING SIGNAL HEADS #2)

MAST ARM DETAILS

				N.1.S.			
POLE	SH1	SH2	SH3	BSH1	SNS1	\$2	\$ 7
# 1	*	*		1	EXIST.	ON POLE	***
#3	**	**	EXIST.	**	EXIST.	_	_

LANE APPROACH. *** NEW SIGNS MOUNTED TO EXISTING MAST ARM TO BE 4'

MINIMUM FROM NEAREST SIGNAL HEAD.

* SEE TYPICAL SIGNAL HEAD PLACEMENT DETAIL ON THIS SHEET (PER T-SG-7C). ** SEE TYPICAL SIGNAL HEAD PLACEMENT DETAIL ON THIS SHEET (PER T-SG-7D). BIKE SIGNAL TO ALIGN WITH BIKE

 DISTANCES BASED ON APPROXIMATE SIGNAL POLE LOCATIONS INDICATED ON PLAN. EXISTING SIGNAL HEADS TO BE PLACED IN RELATION TO THE PROPOSED PAVEMENT MARKING LAYOUT.

(EXIST.) TYPICAL OVERHEAD -SH3 STREET NAME SIGN (EXIST.) TYPICAL SIGNAL HEAD (EXIST.)-**S2** TYPICAL OVERHEAD SIGN (NEW)— TYPICAL BIKE SIGNAL — HEAD & SIGN (NEW) TYPICAL PEDESTRIAN -

SPECIAL NOTE:

■ BSH1 TYPICAL POLE MOUNTED SIGNAL HEAD

SIGNAL HEADS (EXIST.)

SNS1

POLE #

(SIGNAL, EXIST.

• REFER TO TDOT STD. DWG. T-SG-9 FOR ADDITIONAL DETAILS.

			ONE	CAD	
_	GR/	APHIC S	SCALE		
	0	10'	20'	40'	6

(FE)

TRAFFIC SIGNS

(NEW)

BIKE SIGNAL HEAD DISPLAYS

(NEW)

-SIGN FACE BACKGROUND TO BE FLUORESCENT YELLOW-GREEN

TURNING VEHICLES

R9-5 12"x18"

Ø₹0

USE

PED

SIGNA

SIGN (S2)

OVE

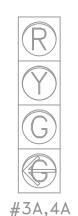
R10-10b 12"x18"

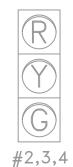
SIGN (S16)

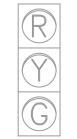
	SIGNAL SUPPORT POLE WITH MAST ARM (EXISTING)	
0	PEDESTAL POLE (EXISTING)	
	SIGNAL HEAD W/ NUMBER (EXISTING)	
P#)	PEDESTRIAN SIGNAL HEAD W/ NUMBER (EXISTING)	
	PAD MOUNTED TRAFFIC SIGNAL CONTROLLER (EXISTING)	
	PULL BOX (EXISTING)	
	UNDERGROUND CONDUIT (EXISTING)	
0 0 E#	OVERHEAD STREET NAME SIGN W/ NUMBER (EXISTING)	
●+► (#)	BIKE SIGNAL HEAD W/ NUMBER & BACK PLATE (NEW)	
• S#	POLE OR MAST ARM MOUNTED SIGN W/ NUMBER (NEW)	
-	GROUND MOUNTED SIGN (NEW, SEE PROPOSED PAVEMENT MARKING AND SIGNING PLAN)	
	GROUND MOUNTED SIGN (EXISTING, SEE PROPOSED PAVEMENT MARKING AND SIGNING PLAN)	

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SIGNAL HEAD DISPLAYS (EXIST.)









RELOCATE EXISTING SIGNAL HEAD NOTE:EXISTING SIGNAL

HEADS (#3,3A,4,4A) TO BE RELOCATED BASED ON THE PROPOSED PAVEMENT MARKING LAYOUT.



SOLID SYMBOLS COLOR LEGEND

MAN - WHITE HAND - PORTLAND ORANGE

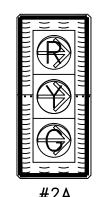
COUNTDOWN TYPE

L.E.D PED WITH

OVERLAPPING

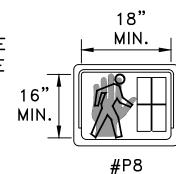
• SEE TDOT STD. DWG. T-SG-7C & T-SG-7D.

SIGNAL HEAD DISPLAYS (NEW)



SIGNAL HEAD NOTE: RETRO REFLECTIVE TAPE 1"-3" WIDE SHOULD BE PLACED AROUND THE PERIMETER OF EACH SIGNAL

BACKPLATE.

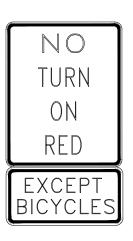


COUNTDOWN TYPE L.E.D PED WITH OVERLAPPING SOLID SYMBOLS

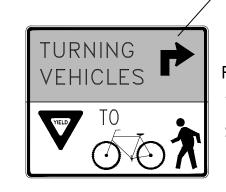
COLOR LEGEND MAN - WHITE HAND - PORTLAND ORANGE

SIGN FACE BACKGROUND

TRAFFIC SIGNS (NEW)



30"x36" SIGN (S5) R3-7bP MOD. 30"x12"



TO BE FLUORESCENT YELLOW-GREEN R10-15R 30"x30"

- NEW SIGNS S5, S6, S7 MOUNTED TO EXISTING MAST ARM TO BE 4' MINIMUM FROM NEAREST SIGNAL HEAD AND SIGN.
- NEW SIGNS S5 & S6 TO BE ON A SINGLE FLAT ALUMINUM SHEET.

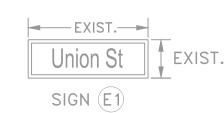
LEGEND

	SIGNAL SUPPORT POLE WITH MAST ARM (EXISTING)
\Diamond	PEDESTAL POLE (EXISTING)
□ ▷(#)	SIGNAL HEAD W/ NUMBER (EXISTING)
P#)	PEDESTRIAN SIGNAL HEAD W/ NUMBER (EXISTING)
	PAD MOUNTED TRAFFIC SIGNAL CONTROLLER (EXISTING)
	PULL BOX (EXISTING)
	UNDERGROUND CONDUIT (EXISTING)
	OVERHEAD STREET NAME SIGN W/ NUMBER (EXISTING)
	MAST ARM (NEW)
#	SIGNAL HEAD W/ NUMBER & BACK PLATE (NEW)
•	PEDESTAL POLE (NEW)
₽	PEDESTRIAN SIGNAL HEAD W/ NUMBER (NEW)
<u> </u>	POLE OR MAST ARM MOUNTED SIGN W/ NUMBER (NEW)
0 0	OVERHEAD STREET NAME SIGN W/ NUMBER (NEW)
	PULL BOX (TYPE B, NEW)
	UNDERGROUND CONDUIT (NEW)
•	GROUND MOUNTED SIGN (NEW, SEE PROPOSED PAVEMENT MARKING AND SIGNING PLAN)
	GROUND MOUNTED SIGN (EXISTING, SEE PROPOSED PAVEMENT MARKING AND SIGNING PLAN)

SPECIAL NOTE:

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OVERHEAD STREET NAME SIGNS (SNS) (EXIST.)





EXISTING INTERNALLY ILLUMINATED STREET NAME SIGNS SHOULD REMAIN IN PLACE.

POLE #2

CONTROLLE

SEE PAVEMENT MARKING SHEETS FOR PROPOSED PAVEMENT MARKING AND ADDITIONAL SIGN DETAILS

SEE SHEET 7A FOR ADDITIONAL SIGNAL DETAILS

EXISTING CONDUIT AND PULLBOXES ARE SHOWN FOR

REPRESENTATION PURPOSES ONLY. CONTRACTOR TO

(SIGNAL, EXIST

POLE #

(SIGNAL, EXIST.)

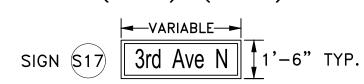
EXIST. CONDUIT

GENERAL NOTES:

FIELD VERIFY.

ALONG 3RD AVENUE N.

OVERHEAD STREET NAME SIGNS (SNS) (NEW)



1-2"C -

1-2"C

20' M.A

- 8" U.C. LETTERS (MINIMUM)
- 6" L.C. LETTERS (MINIMUM)
- HIGH INTENSITY REFLECTIVE SHEETING
- REFLECTIVE WHITE COPY GREEN BACKGROUNDPROVIDED BY MPW

POLE #4

(PEDESTAL, NEW)

POLE #3

(SIGNAL, EXIST.)

POLE #5

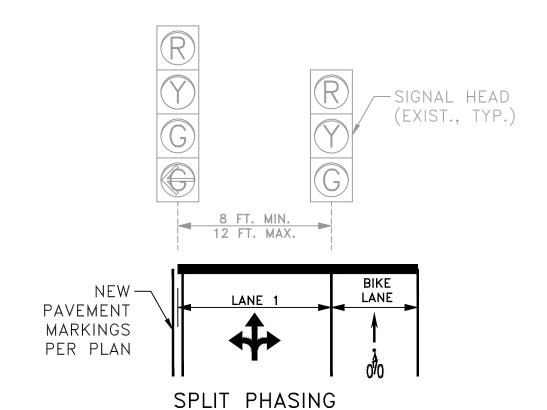
(PEDESTAL, EXIST.)

SNS LETTERING SHOWN FOR REFERENCE ONLY. SNS SIZE AND LETTERING TO BE COORDINATED AND DETERMINED BY METRO PUBLIC WORKS PRIOR TO FABRICATION AND INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE CITY, FABRICATIONS, AND INSTALLATIONS OF SNS'S.

PHASING DIAGRAM

ø1 NOT USED	Ø2 \ ø2A	ø3	Ø4 X		
ø5 NOT USED	ø6 NOT USED	ø7 NOT USED	Ø8 J		
PERMITTED, BUT NOT PROTECTED					

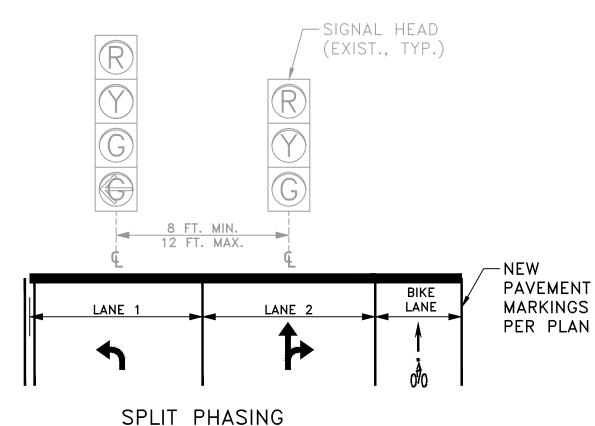
TYPICAL MOTOR VEHICLE SIGNAL HEAD PLACEMENT DETAIL (PER TDOT STD. DWG. T-SG-7C)



TYPICAL MOTOR VEHICLE SIGNAL HEAD PLACEMENT DETAIL

(EXISTING SIGNAL HEADS #3,3A)

(PER TDOT STD. DWG. T-SG-7D MODIFIED)



(EXISTING SIGNAL HEADS #4,4A)

NOTE: THE SIGNAL HEAD PLACEMENT FOR METRO NASHVILLE DIFFERS FROM TDOT STANDARDS AND THE EXISTING SIGNAL HEADS SHOULD BE RELOCATED BASED ON THIS MODIFIED DETAIL.







FILE NO.

DESIGNED BY:

CHECKED BY:

DRAWN BY:

DATE:

DATE:

891704370.13

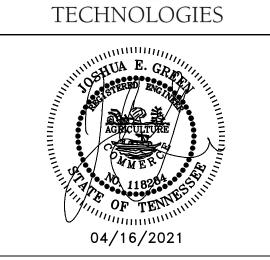
04/16/2021

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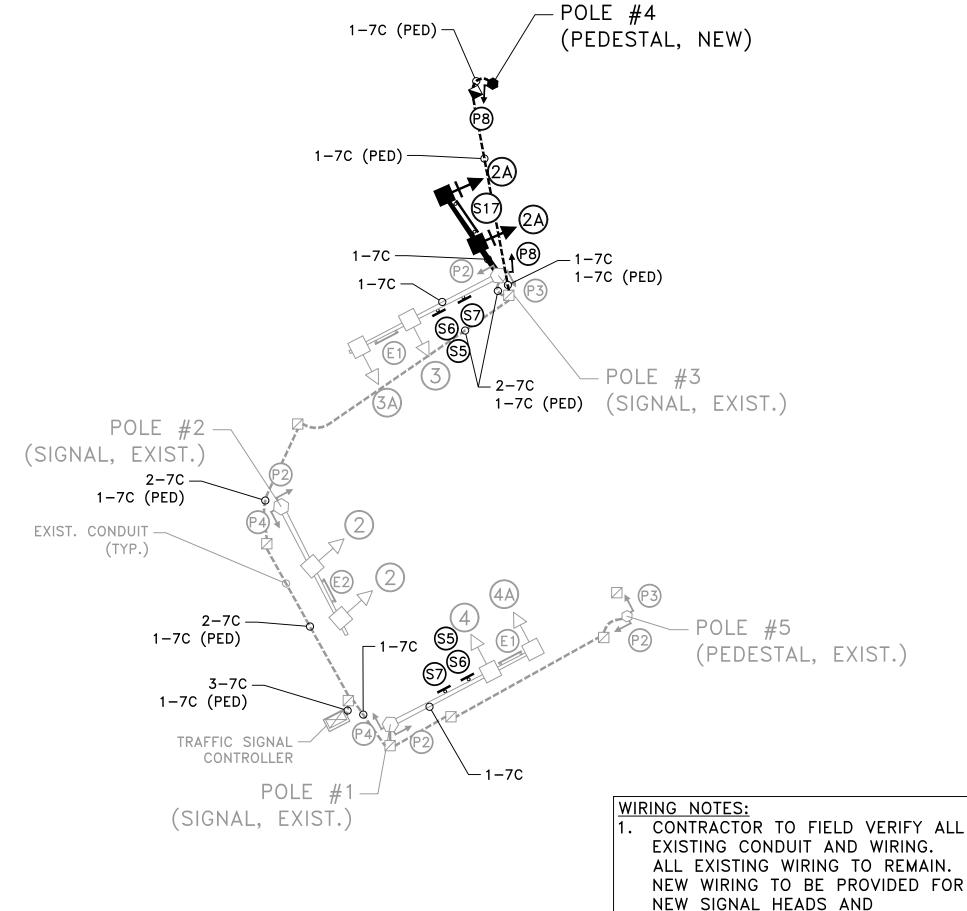
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

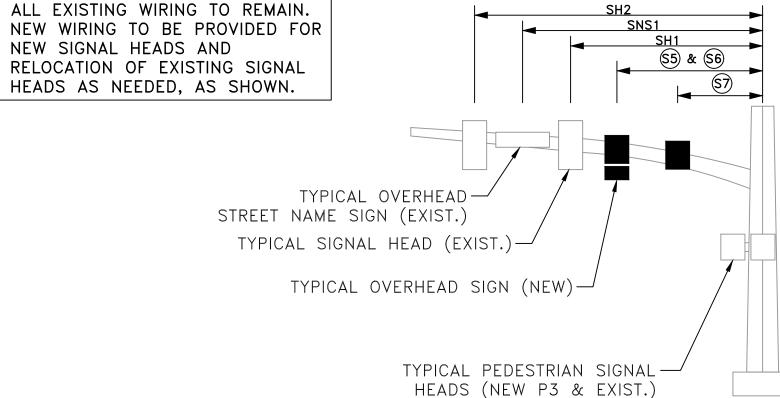
INTERSECTION NO. 1220

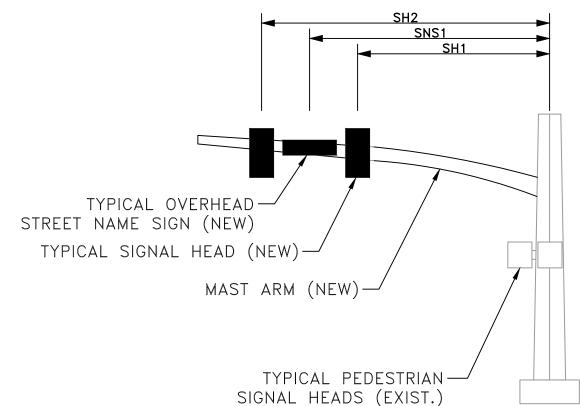
TRAFFIC SIGNAL MODIFICATION PLAN

3rd Avenue N and **Union Street** SCALE: 1"=20'

WIRING DIAGRAM SCALE: 1"=20'







SIGNAL SUPPORT POLE DATA*

POLE NO.	POLE TYPE	HEIGHT	MAST ARM LENGTH	ATTACHMENT HEIGHT **	FOOTING DEPTH ***	
1	CANTILEVER	EXIST.	EXIST.	EXIST.	EXIST.	
2	CANTILEVER	EXIST.	EXIST.	EXIST.	EXIST.	
3	CANTILEVER	EXIST.	NORTHBOUND EXIST.	EXIST.	EXIST.	
3	CANTILLYLIK		WESTBOUND 20'-0"	16'-0"	EXIST.	
4	PEDESTAL	10'-0"	_	_	3'-0"	
5	CANTILEVER	EXIST.	EXIST.	EXIST.	EXIST.	

- * POLE TO BE POWDER COATED BLACK CORE STYLE PEDESTAL.
- ** CONTACT M. HIRTZER AT MPW (615)880-3261 PRIOR TO MAKING TO THE BOTTOM OF ALL SIGNAL HEADS.
- SIGNAL POLE FOOTING DESIGN CALCULATIONS ALONG WITH SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. DESIGN SHALL BE BASED UPON AASHTO LOADING AND DESIGN CRITERIA PUBLISHED IN THE 2009 EDITION OF "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

ATTACHMENT. A MINIMUM OF 17 FEET CLEARANCE MUST BE ACHIEVED

*** PROVIDED FOR ESTIMATION PURPOSES ONLY. CONTRACTOR SHALL SUBMIT

MAST ARM DETAILS

N.T.S.

POLE	SH1	SH2	SNS1	\$5 \$6	\$7
#1	*	*	EXIST.	***	***
#2	EXIST.	EXIST.	EXIST.	_	1
#3-NB	**	**	EXIST.	_	1

- DISTANCES BASED ON APPROXIMATE SIGNAL POLE LOCATIONS INDICATED ON PLAN. EXISTING SIGNAL HEADS TO BE PLACED IN RELATION TO THE PROPOSED PAVEMENT MARKING LAYOUT.
- REFER TO TDOT STD. DWG. T-SG-9 FOR ADDITIONAL DETAILS.
- * SEE TYPICAL SIGNAL HEAD PLACEMENT DETAIL ON SHEET 7 (PER T-SG-7D MODIFIED).
- ** SEE TYPICAL SIGNAL HEAD PLACEMENT DETAIL ON SHEET 7 (PER T-SG-7C). *** NEW SIGNS MOUNTED TO EXISTING MAST ARM TO BE 4' MINIMUM FROM

NEAREST SIGNAL HEAD AND SIGN.

METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

FILE NO.

DESIGNED BY:

CHECKED BY: JMC

DRAWN BY:

DATE:

DATE:

891704370.13

04/16/2021

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TECHNOLOGIES

04/16/2021

INTERSECTION NO. 1220

TRAFFIC SIGNAL MODIFICATION PLAN

3rd Avenue N and **Union Street**

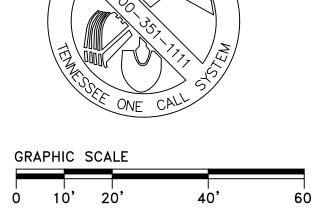
SCALE: 1"=20'

SHEET 7A



N.T.S. SH1 SH2 SNS1 |#3-WB| 8'-0" |20'-0" |14'-0"

- DISTANCES BASED ON APPROXIMATE SIGNAL POLE LOCATIONS INDICATED ON PLAN. EXISTING SIGNAL HEADS TO BE PLACED IN RELATION TO THE PROPOSED PAVEMENT MARKING
- FOR ADDITIONAL DETAILS.

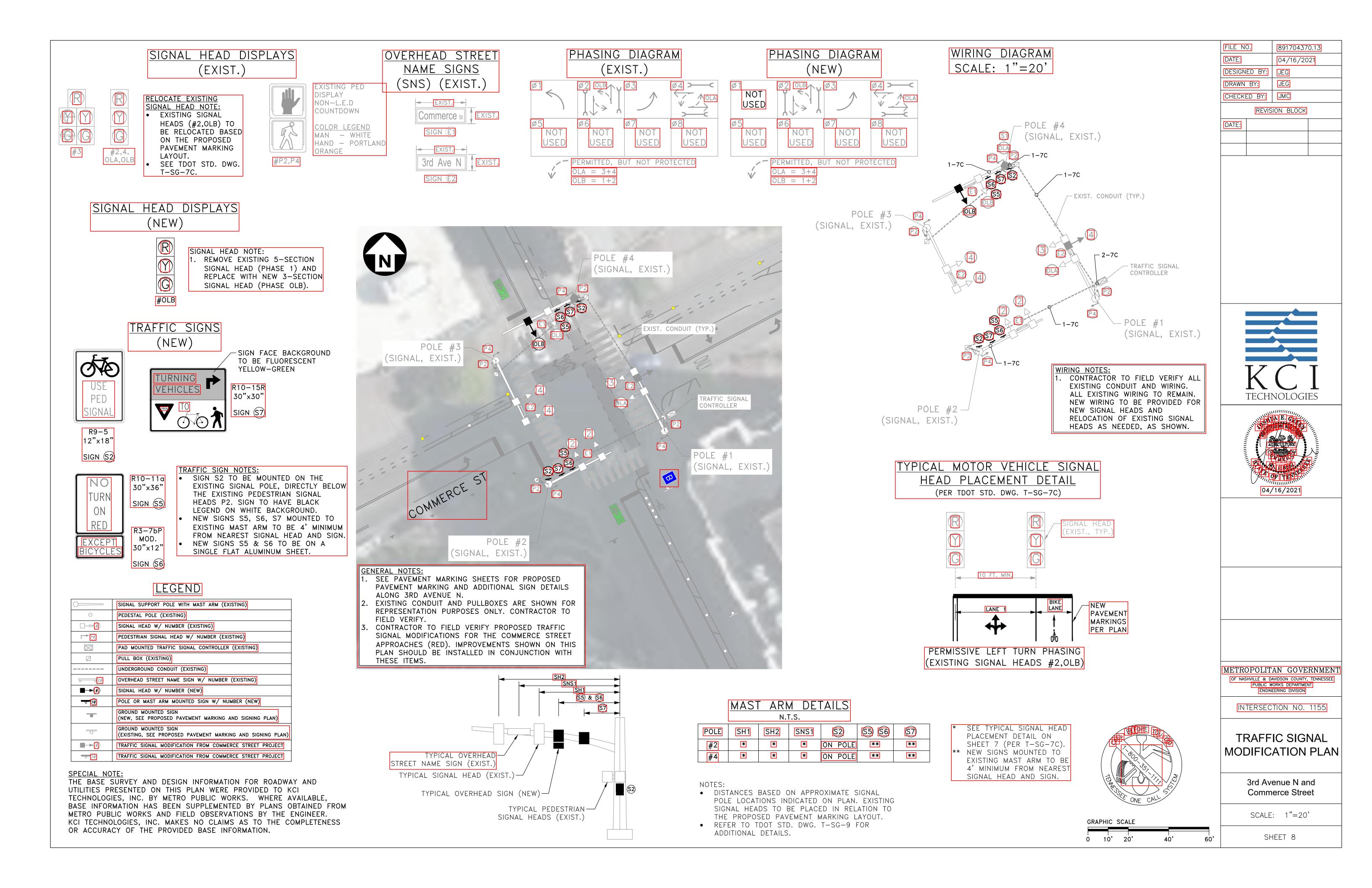


LAYOUT.

• REFER TO TDOT STD. DWG. T-SG-9

SPECIAL NOTE: THE BASE SURVEY AND DESIGN INFORMATION FOR ROADWAY AND UTILITIES PRESENTED ON THIS PLAN WERE PROVIDED TO KCI TECHNOLOGIES, INC. BY METRO PUBLIC WORKS. WHERE AVAILABLE, BASE INFORMATION HAS BEEN SUPPLEMENTED BY PLANS OBTAINED FROM METRO PUBLIC WORKS AND FIELD OBSERVATIONS BY THE ENGINEER. KCI TECHNOLOGIES, INC. MAKES NO CLAIMS AS TO THE COMPLETENESS

OR ACCURACY OF THE PROVIDED BASE INFORMATION.



- 1. ALL CONSTRUCTION, EQUIPMENT, AND INSTALLATION PROCEDURES SHALL COMPLY WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SIGNAL INSTALLATION AND EQUIPMENT SHALL COMPLY WITH SECTION 730N-TRAFFIC SIGNALS (CURRENT EDITION). ALL PAVEMENT MARKINGS SHALL COMPLY WITH SECTION 716-PAVEMENT MARKINGS.
- 2. THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST TO MDPW FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION (CONTACT: MIKE HIRTZER, METRO TRAFFIC ENGINEERING, 615-880-3261).
- 3. INITIAL SIGNAL TIMINGS ARE TO BE PROVIDED BY MDPW. THE CONTRACTOR SHALL NOTIFY MDPW A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE TRAFFIC SIGNAL.
- 4. CONSTRUCT THE CONTROLLER CABINET AND FOUNDATION IN ACCORDANCE WITH TDOT STANDARD DRAWINGS. AN APPROPRIATE CABINET AND FOUNDATION SHALL BE INSTALLED PER MDPW SPECIFICATIONS:

 TYPE IV 55" X 44" X 26" ALUMINUM

 TYPE IV-C 50" X 36" X 173/4" ELECTROSTATIC PAINTED BLACK.
- 5. THE CONTRACTOR SHALL CONNECT THE EXISTING SIGNAL COMMUNICATIONS CABLE TO THE NEW TRAFFIC SIGNAL CONTROLLER CABINET. THE CONNECTION SHALL BE MADE BY SPLICING THE EXISTING CABLE IN A MANNER ACCEPTABLE TO MDPW. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH MDPW AND RECEIVE MDPW APPROVAL PRIOR TO SPLICING THE EXISTING CABLE.
- 6. ALL UTILITY LOCATIONS, AS SHOWN, ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY. SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL SERVICE TO THE SITE.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL UTILITIES FOR ANY "MAKE READY" WORK REQUIRED. MDPW SHALL BE RESPONSIBLE FOR THE ACTUAL COST OF "MAKE READY" WORK.
- 9.A CONTRACTOR SHALL INSTALL A 50 AMP, 2 POLE WEATHERPROOF EXTERNAL DISCONNECT ON THE POLE WITH A/C SERVICE CONNECTION. ENCLOSURE SHALL BE METALLIC WITH A 50 AMP SINGLE POLE CIRCUIT BREAKER.
- 9.B CONTRACTOR SHALL INSTALL UNDERGROUND ELECTRIC SERVICE CONNECTION IN A TYPE B PULL BOX LABELED "TRAFFIC SIGNAL". PULL BOX SHALL HAVE A 30 AMP KTK FUSE AND WATER PROOF FUSE HOLDER WITH #6 AWG WIRES COLOR CODED BLACK, WHITE, AND GREEN. POWER SERVICE SHOULD BE INSTALLED IN A 2" CONDUIT FROM NES VAULT TO CONTROLLER CABINET.
- 10. VEHICLE DETECTION LOOPS SHALL MEASURE 6' X 45' QUADRAPOLE LOOPS WITH TWO TURNS OF WIRE, UNLESS SPECIFIED OTHERWISE. LOOPS SHALL BE CENTERED IN THE TRAVEL LANES. LOOPS SHALL BE INSTALLED IN ACCORDANCE WITH TOOT STANDARD DRAWINGS AND MDPW LOOP SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- 11. ALL EQUIPMENT NECESSARY FOR RADAR DETECTION SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED IN THE CABINET.
- 12. ALL FOUNDATIONS SHALL HAVE A SPARE 2-INCH STUBOUT PARALLEL TO THE ROAD (POLES AND CONTROLLER).
- 13. THE PROPOSED LOCATIONS FOR THE SIGNAL SUPPORT POLES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE. SOME FIELD ADJUSTMENT MAY BE REQUIRED IN ORDER TO AVOID CONFLICT WITH EITHER OVERHEAD OR UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND STAKING THE OPTIMUM LOCATIONS FOR

SIGNAL NOTES

- THESE POLES AND FOR RECEIVING APPROVAL FROM THE ENGINEER AND THE APPROPRIATE UTILITIES BEFORE INSTALLATION BEGINS. PROPER ROADSIDE CLEAR ZONES SHALL BE OBSERVED.
- 14. SHAFTS FOR FOOTINGS SHALL BE DRILLED THROUGH FIRM, UNDISTURBED, UNSATURATED SOIL AND SHALL BE VISUALLY INSPECTED BY THE ENGINEER OR ENGINEERING REPRESENTATIVE PRIOR TO PLACEMENT OF REINFORCEMENT. THE ENGINEER OR ENGINEERING REPRESENTATIVE SHALL BE ADVISED BY THE CONTRACTOR OF ANY GROUND WATER OR LOOSE SOIL ENCOUNTERED DURING DRILLING. FOOTINGS SHALL COMPLY WITH TDOT STANDARD DRAWINGS.
- 15. SIGNAL HEADS VISIBLE TO DRIVERS BUT NOT OPERATIONAL SHALL BE COMPLETELY COVERED.
- 16. SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7)
 DAYS PRIOR TO ACTIVATION OF THE TRAFFIC SIGNAL,
 UNLESS OTHERWISE SPECIFIED BY MDPW TRAFFIC ENGINEER.
- 17. IF FIELD ADJUSTMENTS RESULT IN CHANGES TO SIGNAL HEAD PLACEMENT, ATTACHMENT HEIGHTS, OR SPAN WIRE/MAST ARM LENGTH, THE ENGINEER SHALL BE ADVISED AND SHOP DRAWINGS SHALL BE RE-EVALUATED TO VERIFY THAT THE CHANGES ARE STRUCTURALLY ACCEPTABLE.
- 18. ALL STOP LINES, CROSSWALK LINES, LANE LINES, AND PAVEMENT ARROWS SHALL BE THERMOPLASTIC. STOP LINES SHALL BE 24 INCHES WIDE. ALL CONFLICTING MARKINGS SHALL BE REMOVED USING AN ACCEPTABLE METHOD AS SPECIFIED BY TDOT SPECIFICATION SECTION 712—TEMPORARY TRAFFIC CONTROL. EXISTING PAVEMENT MARKINGS SHALL BE REAPPLIED AS NECESSARY.
- 19. STREET NAME SIGNS ARE TO BE PROVIDED BY MDPW AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. CONTACT MDPW SIGN SHOP A MINIMUM OF THIRTY (30) DAYS PRIOR TO EXPECTED SIGN INSTALLATION DATE FOR SIGN PREPARATION.
- 20. ALL ITEMS INSTALLED WITHIN THE PEDESTRIAN PATH OF TRAVEL (I.E. SIDEWALK) SHALL MEET THE METRO PUBLIC WORKS STANDARD DETAILS. THIS INCLUDES A MINIMUM PATH OF TRAVEL WIDTH OF 60" AND A PROTRUDING OBJECT LIMIT OF 4" IF MOUNTED AT A HEIGHT BETWEEN 27" AND 80" AND WITHIN THE PATH OF TRAVEL. VARIANCES MUST BE APPROVED BY MDPW.
- 21. EXISTING SIGNAL EQUIPMENT TO BE REMOVED BY THE CONTRACTOR. ALL SALVAGED EQUIPMENT TO BE RETURNED TO MORW
- 22. EXISTING SIGNAL EQUIPMENT SHALL REMAIN IN OPERATION UNTIL NEW SIGNAL EQUIPMENT IS COMPLETE AND IN FULL OPERATION.
- 23. ALL NEW SIGNAL HEADS SHALL BE FABRICATED FROM ALUMINUM. ALL NEW SIGNAL HEADS SHALL BE LED TYPE, GELCORE OR METRO APPROVED ALTERNATE. SIGNAL HEAD EQUIPMENT (I.E. FRAME AND ILLUMINATION TYPE) SHALL BE APPROVED BY MDPW PRIOR TO INSTALLATION. ATTACHMENT TO BE WITH "ASTRO" BRACKETS.
- 24. CABINET AND CONTROLLER MUST HAVE ALL EQUIPMENT NECESSARY TO PROVIDE SIGNAL COMMUNICATION VIA PHONE DROP. CONTRACTOR TO FURNISH CELL MODEM. THIS INCLUDES 2' RISER WITH PULL LINE. THIS DOES NOT INCLUDE THE INSTALLATION OF THE PHONE LINE ITSELF.
- 25. CABINET/CONTROLLER TO INCLUDE COORDINATION
 MODULE, ETHERNET PORT, COMMUNICATIONS PANEL AND
 OTHER CABINET WIRING AS REQUIRED FOR SYSTEM
 OPERATION. CONTROLLER TO BE COMPATIBLE WITH EXISTING
 MDPW SIGNAL MANAGEMENT SOFTWARE AS SPECIFIED.
- 26. ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36 CFR PARTS 1190 AND 1191, ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES; ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES; PROPOSED RULE, PUBLISHED IN THE FEDERAL REGISTER ON JULY 23, 2004, AS HAS BEEN ADOPTED BY METRO.
- 27. TRAFFIC SIGNAL SUPPORT POLES SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES, AND TRAFFIC SIGNALS (2009 EDITION). WIND LOADS SHALL BE BASED ON A BASIC WIND SPEED OF

90MPH WITH A RECURRENCE INTERVAL OF 50YRS. USE THE FATIGUE CATEGORY AS NOTED ON EACH PROPOSED SIGNAL LAYOUT. FATIGUE LOADS ARE BASED ON THE REQUIREMENTS OF SECTION 11.7 AND THE FOLLOWING LOADS: GALLOPING - NO DESIGN NECESSARY. VIBRATION DAMPENERS SHALL BE USED ON ALL MAST ARMS 50' OR GREATER. VORTEX SHEDDING - NOT APPLICABLE ON TRAFFIC SIGNAL SUPPORTS WITH A TAPER OF AT LEAST 0.14 IN/FT. NATURAL WIND GUST - THE YEARLY MEAN WIND SPEED FOR NATURAL WIND GUSTS SHALL BE 11.2MPH. TRUCK INDUCED GUST - NO DESIGN NECESSARY. THE TRAFFIC SIGNAL SUPPORT POLES SHALL BE POLES WITH CURVED MAST ARMS IN ACCORDANCE WITH MDPW 730-N POLE AND LIGHTING SPECIFICATIONS JANUARY 31, 2014. FOR POLE AND ARM DETAILS, AND TO CONFIRM DESIGN CRITERIA, CONTACT MIKE HIRTZER, METRO TRAFFIC ENGINEERING, 615-880-3261.

28. ALL OPEN CUTS AND TRENCH REPAIRS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT MDPW STANDARD DRAWINGS.

29. ALL SIDEWALK AND RAMP REPAIRS SHALL COMPLY WITH CURRENT MDPW STANDARD DRAWINGS.

30. ALL CONDUITS SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. CONDUIT SHALL BE LAID AT A MINIMUM DEPTH OF 24 INCHES BELOW FINISHED GRADE AND SHALL COMPLY WITH TDOT TRENCHING DETAILS AND CONDUIT PLACEMENT. THE CONTRACTOR SHALL SEAL ALL OPEN CONDUIT ENTRANCE HOLES, WITH OR WITHOUT CABLES, WITH CONDUIT DUCT SEAL PUTTY OR CONDUIT PLUGS. WHERE CABLE ENTER THE CONDUIT, THE SEALANT SHALL BE APPLIED AFTER INSTALLING THE CABLE. THESE LOCATIONS SHALL CONSIST OF CONDUIT ENDS AND PULL BOXES, CABINET BASES AND WEATHER—HEADS.

31. THE PLAN SHEET HAVE BEEN DEVELOPED WITH EXISTING DATA AVAILABLE FROM MULTIPLE SURVEYS AND FIELD VISITS. ALL ITEMS INCLUDED AND SHOWN HEREIN ARE BELIEVED TO REFLECT EXISTING CONDITIONS TO A REASONABLE DEGREE OF ACCURACY. HOWEVER, THE CONTRACTOR HAS FINAL RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, UNDERGROUND UTILITIES, PROPERTY LINES AND DRAINAGE STRUCTURES.

32. OPERATION OF EACH INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE CONTROLLED THROUGH THE USE OF A SINGLE PHOTO CELL (GRAINGER PART #K-4021 OR EQUIVALENT) LOCATED IN THE TOP OF THE CONTROLLER CABINET. INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO A SEPARATE 6 POSITION TERMINAL BLOCK AND A SEPARATE 6 POSITION GROUND BAR LOCATED IN THE CONTROLLER CABINET.

- 33. SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER TO BE MADE OF A TYPE III PRISMATIC MATERIAL.
- 34. UTILITY MARKINGS SHALL BE CHALK BASED MARKING PAINT ON ASPHALT AND SIDEWALKS, AND REMOVED ONCE CONSTRUCTION IS COMPLETED.
- 35. A SINGLE #6 BCW CABLE (#6 COPPER SOFT DRAWN BARE-GROUND, ITEM NUMBER 714-06.08) SHALL BE INSTALLED IN EVERY DIRECTIONAL DRILLED CONDUIT ROUTE ALONG WITH A § CW GROUND ROD AT THE BASE OF EACH SIGNAL POLE. A SEPARATE #6 BWC CABLE SHALL BE UTILIZED FOR THE CONTROLLER CABINET ALONG WITH A § CW GROUND ROD. THE SIGNAL POLES SHALL NOT BE BONDED TO THE CONTROLLER CABINET. ALL CONDUIT RUNS BETWEEN PULL BOXES OR BETWEEN PULL BOXES AND POLES TO HAVE A LOCATE WIRE, ITEM NUMBER 730-14.03.

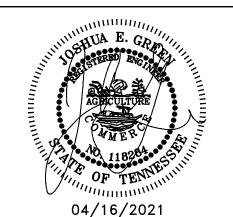
		3RD AVENUE NORTH - ESTIMATED SIGNAL QU	JANTITIES	
	ITEM#	DESCRIPTION	UNIT	QUANTITY
F	712-08.06	UNIFORMED POLICE OFFICER	HOUR	160
(7)	713-15.05	STREET NAME SIGNS (INSTALL ONLY)	EACH	1
(1)(3)(7)	713-16.21	SIGNS (36" X 36" ALUMINUM FLAT SHEET, R10-15R, TURNING VEHICLES YIELD TO BIKE/PED, RIGHT)	EACH	5
(4)(7)	713-16.27	SIGNS (24" X 12" ALUMINUM FLAT SHEET, R3-7bP MOD., EXCEPT BICYCLES OVERSIZE PLAQUE)	EACH	4
(2)(7)	713-16.31	SIGNS (24" X 18" ALUMINUM FLAT SHEET, R9-5, BIKES USE PED SIGNAL)	EACH	3
(2)	713-16.31	SIGNS (24" X 18" ALUMINUM FLAT SHEET, R10-10b, BIKE SIGNAL)	EACH	1
(4)(7)	713-16.33	SIGNS (30" X 36" ALUMINUM FLAT SHEET, R10-11a, NO TURN ON RED)	EACH	4
Γ	717-01	MOBILIZATION	LS	1
(5)	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
(9)	730-02.07	SIGNAL HEAD ASSEMBLY (130)	EACH	1
(8)(9)	730-02.07	SIGNAL HEAD ASSEMBLY (130 BIKE SIGNAL)	EACH	1
(9)	730-02.10	SIGNAL HEAD ASSEMBLY (130 A2)	EACH	2
(6)	730-02.34	MAST ARM HARDWARE	EACH	41
Γ	730-03-N	PULL BOX (TYPE B TRAFFIC) 730-N TIER 22 LID	EACH	1
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	1400
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	50
	730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	50
L	730-12.31	TRENCHING (SIDEWALK)	L.F.	20
	730-14.02	SAW SLOT	L.F.	350
L	730-14.03	LOOP WIRE	L.F.	1000
	730-23.13	10' PEDESTRIAN POLE - CORE	EACH	1
(10)	730-23.48B	CANTILEVER SIGNAL SUPPORT (I ARM @ 20') CORE- CATEGORY 2	EACH	1
	730-24.07	FOUNDATION (PEDESTRIAN POLE 24" X 3') INSTALL ONLY	EACH	1
	730-26.05	COUNTDOWN PEDESTRIAN SIGNAL	EACH	2

FOOTNOTES

- (1) SIGN SIZE TO BE 30" X 30".
- (2) SIGN SIZE TO BE 12" X 18".
- (3) SIGN FACE BACKGROUND TO BE FLUORESCENT YELLOW-GREEN.
- (4) ITEM INCLUDES MOUNTING SIGN OVERHEAD ON MAST ARM. SIGNS TO BE ON A SINGLE FLAT ALUMINUM SHEET WITH A TOTAL SIZE OF 30" X 48".
- (5) ITEM INCLUDES THE REMOVAL OF THE EXISTING 5-SECTION SIGNAL HEAD FOR THE NORTHBOUND 3RD AVENUE N APPROACH THE COMMERCE STREET INTERSECTION.
- (6) ITEM IS FOR RELOCATION OF EXISTING SIGNAL HEADS BASED ON THE PROPOSED PAVEMENT MARKING LAYOUT ALONG 3RD AVENUE N. ALSO INCLUDES HARDWARE NEEDED FOR NEW POLE MOUNTED SIGNAL HEADS, NEW MAST ARM MOUNTED SIGNAL HEADS AND OVERHEAD SIGNS. PELCO GALAXY MOUNTING HARDWARE SHOULD BE USED. INCLUDES QUANTITIES FOR CHURCH STREET INTERSECTION.
- (7) INSTALL OVERHEAD SIGNS USING ASTRO BRACKET TYPE HARDWARE.
- (8) NEW BIKE SIGNAL HEAD TO HAVE 8" SIGNAL INDICATIONS.
- (9) NEW SIGNAL HEADS SHOULD INCLUDE PELCO AEROFLEX BACKPLATES AND PELCO GALAXY MOUNTING
- (10) ITEM TO INCLUDE NEW MAST ARM ONLY ATTACHED TO EXISTING SIGNAL SUPPORT.

FILE NO.	891704370.13		
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METROPOLITAN GOVERNMENT

OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE

PUBLIC WORKS DEPARTMENT

FNGINFFRING DIVISION

TRAFFIC SIGNAL NOTES AND QUANTITIES

3rd Avenue N

N.T.S.